THE VISUAL DICTIONARY OF

scroll Spiral-shaped decorative end of the peg box.



peg

Piece of wood or metal that rolls the end of a string to adjust its tension to obtain the exact note.

ARCHITECTUR

fingerboard

Board on which the player's fingers are placed to control the length of the vibrating string to determine the pitch of a note.

purfling

Ornamental strip of wood around the edge of the soundboard and the bottom of the sound box.

bridge

Piece of wood over which the strings are stretched; it transmits their vibrations to the soundboard.

tailpiece

Piece of wood to which the bottom ends of the strings are attached.

soundboard

The upper, slightly convex face of the instrument; it has two holes and receives vibrations from the bridge, which it transmits to the sound box.

Each of the thin pieces of wood that form the sides of the instrument.

sound hole

Each of the openings whose function is to release sound from the sound box.

ART & ARCHITECTURE

Jean-Claude Corbeil
Ariane Archambault

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INTRODUCTION

EDITORIAL POLICY

The Visual Dictionary takes an inventory of the physical environment of a person who is part of today's technological age and who knows and uses a large number of specialized terms in a wide variety of fields.

Designed for the general public, it responds to the needs of anyone seeking the precise, correct terms for a wide range of personal or professional reasons: finding an unknown term, checking the meaning of a word, translation, advertising, teaching material. etc.

The target user has guided the choice of contents for *The Visual Dictionary*, which aims to bring together in 12 thematic books the technical terms required to express the contemporary world, in the specialized fields that shape our daily experience.

STRUCTURE

Each tome has three sections: the preliminary pages, including the table of contents; the body of the text (i.e. the detailed treatment of the theme); the index.

Information is presented moving from the most abstract to the most concrete: sub-theme, title, subtitle, illustration, terminology.

TERMINOLOGY

Each word in *The Visual Dictionary* has been carefully selected following examination of high-quality documentation, at the required level of specialization.

There may be cases where different terms are used to name the same item. In such instances, the word most frequently used by the most highly regarded authors has been chosen.

Words are usually referred to in the singular, even if the illustration shows a number of individual examples. The word designates the concept, not the actual illustration.

DEFINITIONS

Within the hierarchical format of *The Visual Dictionary*'s presentation, the definitions fit together like a Russian doll. For example, the information within the definition for the term *insect* at the top of the page does not have to be repeated for each of the insects illustrated. Instead, the text concentrates on defining the distinguishing characteristics of each insect (the *louse* is a parasite, the female *yellow jacket* stings, and so forth).

Since the definition leaves out what is obvious from the illustration, the illustrations and definitions complement one another.

The vast majority of the terms in the *Visual Dictionary* are defined. Terms are not defined when the illustration makes the meaning absolutely clear, or when the illustration suggests the usual meaning of the word (for example, the numerous *handles*).

METHODS OF CONSULTATION

Users may gain access to the contents of *The Visual Dictionary* in a variety of ways:

- From the TABLE OF CONTENTS at the end of the preliminary pages, the user can locate by title the section that is of interest.
- With the INDEX, the user can consult The Visual Dictionary from a word, so as to see what it corresponds to, or to verify accuracy by examining the illustration that depicts it.
- The most original aspect of *The Visual Dictionary* is the fact that the illustrations enable the user to find a word even if he or she only has a vague idea of what it is. The dictionary is unique in this feature, as consultation of any other dictionary requires the user first to know the word.

TITLE

Its definition is found below. If the title refers to information that continues over several pages, after the first page it is shown in a shaded tone with no definition.

DEFINITION

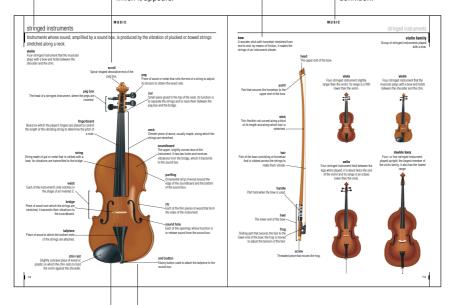
It explains the inherent qualities, function, or characteristics of the element depicted in the illustration.

SUB-THEME

These are shown at the end of the preliminary pages along with their definitions. They are then repeated on each page of a section, but without the definition.

TERM

Each term appears in the index with a reference to the pages on which it appears.



ILLUSTRATION

It is an integral part of the visual definition for each of the terms that refer to it.

NARROW LINES

These link the word to the item indicated. Where too many lines would make reading difficult, they have been replaced by color codes with captions or, in rare cases, by numbers.

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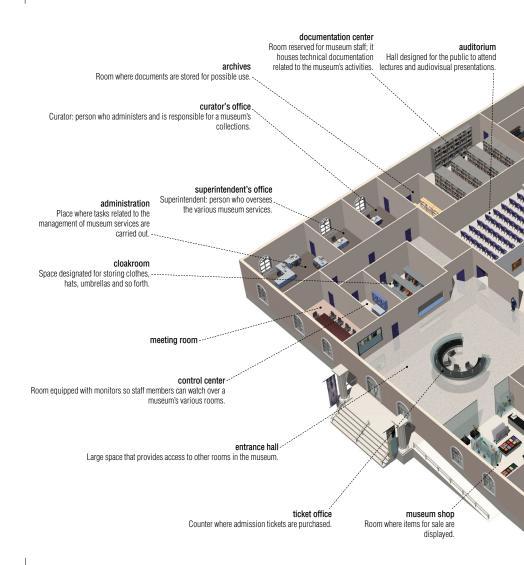
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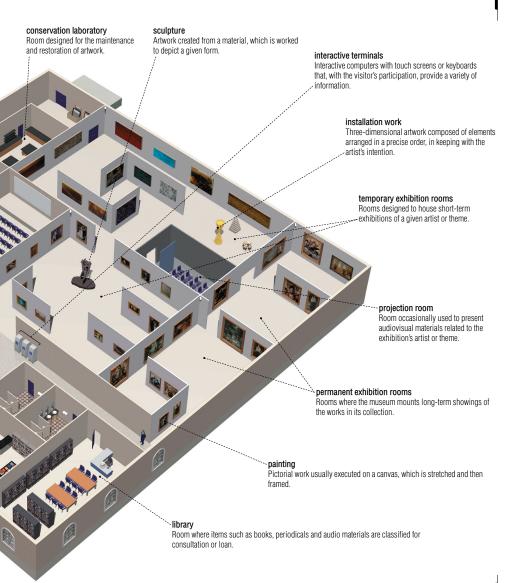
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Establishment where works of art are stored and exhibited.







audioguide

Handheld device that allows users to listen, in their own language, to commentary on the artwork exhibited.



Rigid border around a painting or engraving that protects it and makes it possible to hang it.





Stiff paper containing information about a work of art.

Arts that use graphics and color to represent or suggest visible or imagined concepts on a surface.

major techniques

The processes used to execute drawings and paintings.



oil painting
Technique used to achieve an opaque, transparent, matte or brilliant finish, depending on the composition of the paint.



watercolor Mixture of pigment powder agglutinated with a water-soluble binder; when it is diluted, a transparent effect is created.



gouache
Mixture of roughly ground pigment and
chalk agglutinated with a water-soluble
binder; when it is diluted, an opaque effect
is created.



charcoal drawing
Sketching technique that can create
tones ranging from the darkest blacks
to the lightest grays.



wax crayon drawing
Technique used mostly by children to create a
precise line and a brilliant color effect.



colored pencil drawing
Technique for combining precise lines with
color, and then applying layers of color to
achieve new shades.



ink drawingTechnique usually involving the use of a pen to create fine and precise lines.



felt tip pen drawing Technique for producing precise lines and gradations of color.



dry pastel drawingTechnique whose powdery line creates
a velvety effect.



oil pastel drawingTechnique that provides a bold stroke similar to that of an oil painting.

painting and drawing

equipment

Materials, instruments and accessories used to create a drawing or painting.



watercolor/gouache cakes

Small watercolor or gouache disks inserted into cells to prevent the colors from mixing.



watercolor/gouache tube

Tube containing watercolor or gouache in paste form.



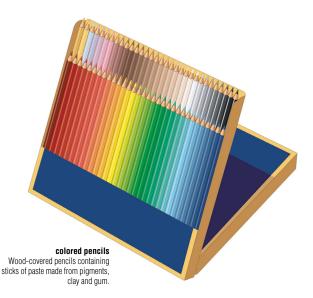
dry pastel

Mixture of pigment powder agglutinated using a gumbased binder, then shaped into sticks and dried.



wax crayons

Sticks composed of pigment molded with wax.





oil pastel

Mixture of pigments, wax and sometimes oily substances in stick form.



palette with hollows

Tray featuring a thumb hole and hollows where the paint is placed before it is mixed.





articulated mannequin Wooden figurine used to visualize various positions assumed by the human body.

color chart Sample of the different color shades provided by a manufacturer.

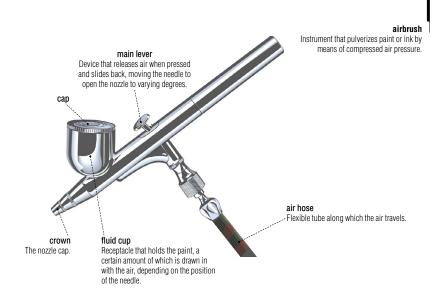


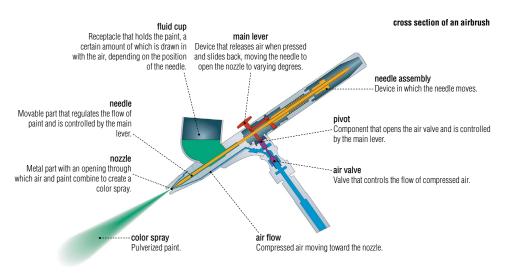
dipper

Small metal receptacle fastened to the palette; it contains the oil and essences used to dilute color.



palette with dipperTray featuring a thumb hole and a dipper; the painter uses it to set out colors and mix them.



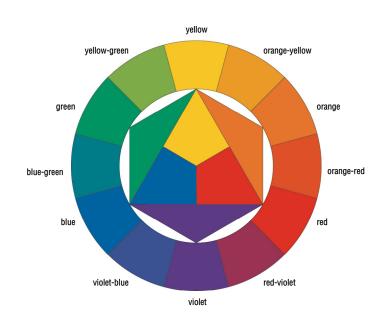


accessories



color circle

Representation of the color spectrum on a circle.





tertiary colorsColors obtained by mixing equal proportions of a primary color and a secondary color.



secondary colors
Colors obtained by mixing equal proportions of two primary colors.



primary colorsColors that cannot be obtained by mixing other colors.

painting and drawing

utility liquids

Utility liquids are used to prepare a color or protect a work of art.



linseed oil

Oil made from linseeds; it acts as a binding agent so that pigment adheres to a surface.



varnish

Preparation with no pigment; when applied to a surface, it forms a protective film.



turpentine

An essential oil obtained by the distillation of natural resins and used mostly as an oil paint thinner.



fixative

Transparent solution in liquid or aerosol form applied to protect a drawing in charcoal, chalk, pastel or pencil.

supports

Surfaces on which paintings, drawings and engravings are created.



canvas

Piece of fabric covered with a primer and set on a stretcher; it serves as the surface for the painting.



panel

Wooden board that serves as a rigid support for a painting.



cardboard

Somewhat rigid sheet made of several Vegetable substance reduced to paste, layers of paper pulp; its function is to support a drawing or painting.



paper

rolled and then dried into thin sheets that serve as a surface for a drawing, painting or engraving.

Art that consists of carving a piece of wood to represent or suggest an object.

steps

Phases in the development of a wood sculpture.



drawing Step that involves drawing the piece to be carved on a wooden block.



roughing out basic contours of a piece.



carving Step that involves bringing out the Step that involves shaping and refining the piece.



finishina Step that involves fine-tuning the details and polishing the surface of a piece until no evidence remains of the tools used

major types of blades

Blade: the sharp part of a sculptor's chisel.



straight blade Blade used for general work in a straight line.



Hammer used to strike the heel of a sharp tool to force it into the wood.





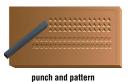
carver's bench screw Threaded instrument used to secure a piece of wood to a stand.

spoon blade

Blade used for deep gouging.



stand Small stool on which the sculptor places and secures the piece to be worked on.



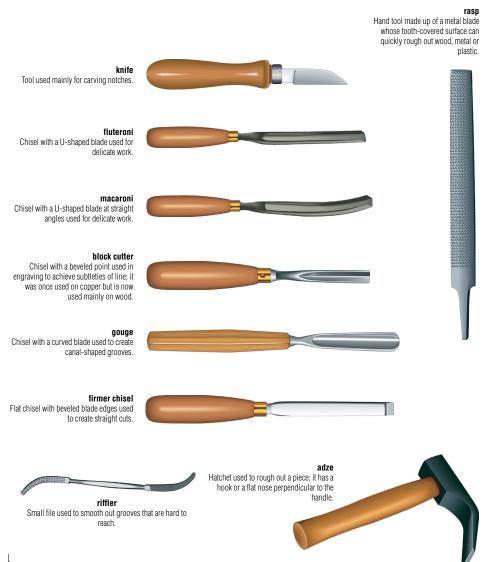
The punch, a metal rod, is struck to carve motifs into a slab of wood.



blade with two beveled edges Blade used to execute rectilinear cuts.

examples of tools

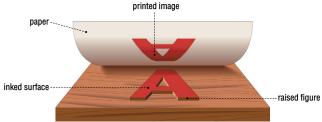
Tools: instruments used in sculpture to cut and file wood.



Reproduction of characters or illustrations by transferring a model to a surface, usually paper, most often using ink.

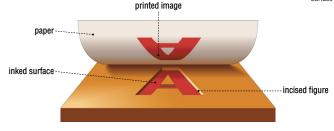
relief printing

Process that consists of printing an image from a raised figure covered with a film of ink; the image is transferred to a surface by means of pressure.



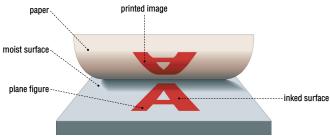
intaglio printing

Process that consists of printing an image from an incised figure filled with ink; the image is transferred to a surface by means of pressure.



lithographic printing

Process that consists of printing an image from a figure on the same plane as the nonprinted parts, which are protected from the ink by dampening.



GRAPHIC ARTS

relief printing process

Technique that consists of creating a raised figure on a piece of wood.

equipment

Collective term for the materials, instruments and tools used for engraving and printing.



knife

Tool used for engraving in the grain direction of the wood; it brings out the figure by means of incisions.



braver

Instrument used to spread ink on a raised figure.



block cutter

Chisel with a beveled point used in engraving to achieve subtleties of line: it was once used on copper but is now used mainly on wood.



U-shaped gouge

Sharp U-shaped chisel used to remove areas to create large blank spaces.



baren

Instrument that exerts pressure on the back of the paper to help the ink adhere



V-shaped gouge

Sharp V-shaped chisel used to dig deep angular grooves and to remove areas to create smaller blank spaces.

chisel

Sharp tool with a flat beveled blade used for engraving wood in the grain direction; it removes areas to create blank space around the figure and smoothes out the background.



ink

Preparation in black or in color used for printing.



Plate on which the ink is spread so it will be evenly distributed on the brayer.



Preparation in black or in color used for printing.

spatula

Tool with a flat flexible blade used to spread ink or scrape down the inking slab.

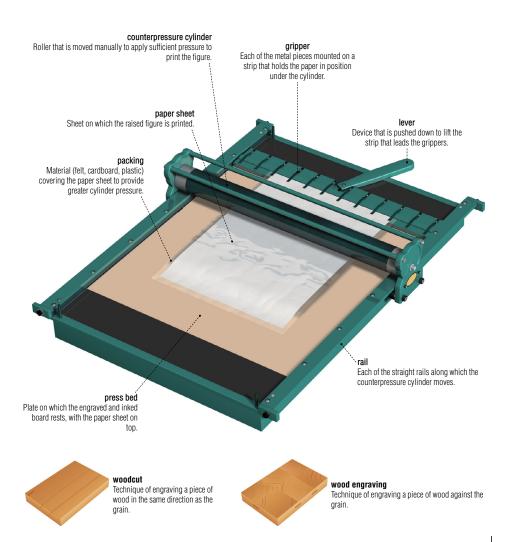


mallet

Hammer used to strike the heel of a sharp tool to drive it into wood

proof press

Fixed-bed printing press with a cylinder that is moved along an engraved and inked board covered with a sheet of paper.



GRAPHIC ARTS

intaglio printing process

Technique that consists of drawing a figure by engraving its lines into a surface, usually a copper plate.

equipment

Collective term for the materials, instruments and tools used for engraving and printing.



drvpoint

Steel rod used to engrave a figure in copper by biting into the plate or the varnish covering it.



roulette

Instrument with a steel wheel containing several rows of regular asperities and used to create coarsegrained lines.



brush

Natural or synthetic bristles attached to a handle, used for spreading paint, varnish or stain on a base.



burnisher

Instrument used to refine the cuts and remove irregularities from the metal.



rocking tool

Tool with a thick rounded beveled steel blade; the row of vertical grooves on its sides gives the copper surface a uniform grain.



plate while smoking it.



scraper

Tool with a pointed triangular blade used to remove burrs, thin strips of copper left on the edge of the groove made by the drypoint.



dabber

Instrument made up of a handle placed in a cotton wad and wrapped in silk; it is used to spread varnish on the plate.

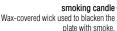


Instrument used to blacken the varnish and the plate with smoke; this makes the figure more visible during the engraving process.



copper plate

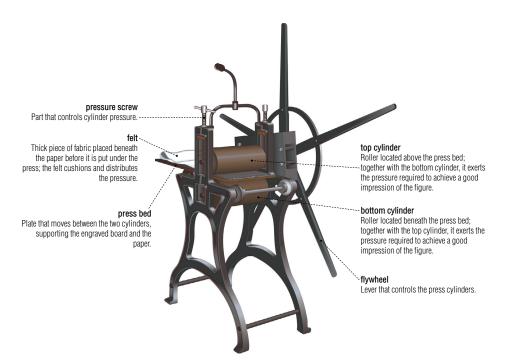
Copper is the metal most often used in engraving because it is strong, is malleable enough for engraving and reacts to chemicals.





etching press

Apparatus with two cylinders; to print, an engraved and inked plate and a sheet of paper are pressed between them.





tarlatan

Muslin used to wipe excess ink from the surface of the plate.



oilstone

Stone used to sharpen tools.



varnish-roller

Instrument used to spread varnish on the surface and prevent ink from adhering to it; it ensures that only the figure is inked.

GRAPHIC ARTS

lithography

Technique of printing from a plane surface using grease to draw a figure on damp limestone; the grease retains ink, the water repels it.

equipment

Collective term for the materials, instruments and tools used for engraving and printing.



pumice correcting pencil

litho pencil

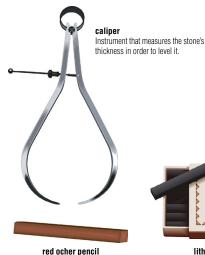
drypoint

lithographic techniques.

Instrument used to polish the stone and make corrections to the figure.

Grease pencil used to draw a figure on a lithographic stone.

Instrument used to engrave the stone in some



Stick of hematite (iron oxide) used to produce a sketch on paper; the sketch is then transferred to the stone.



litho crayon

Rectangular stick of grease chalk used to draw a figure on a lithographic

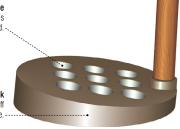


lithographic tusche

Greasy ink in liquid or solid form used to draw a figure on a lithographic stone using a pen or a brush.



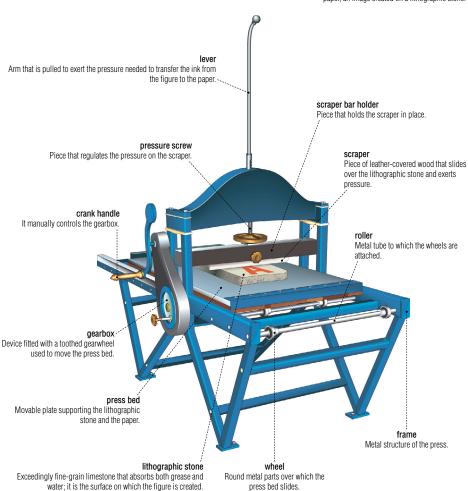
Cast-iron plate with holes, used to buff the stone. -



levigator Instrument that is rotated over the



Manual printing press that uses pressure to print, on paper, an image created on a lithographic stone.



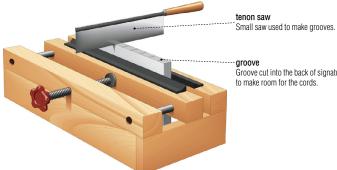
GRAPHIC ARTS

fine bookbinding

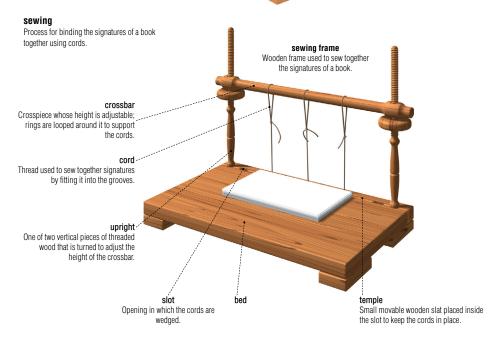
Collective term for the manual operations required to bind the sheets of a book together and add an attractive solid cover.

sawing-in

Process for making grooves on the backs of signatures to make room for the cords



Groove cut into the back of signatures to make room for the cords.

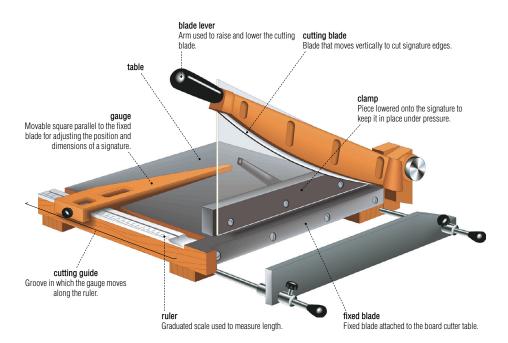


trimming

The process of evening the edges of a signature using a board cutter.

board cutter

Piece of equipment used to make square cuts in paper, cardboard, transparencies, etc.



fine bookbinding

backing

Process for creating joints, the parallel projections running the length of the book that act as hinges between the spine and the boards.

backing hammer

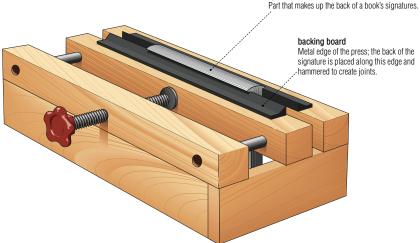
Tool used to flatten the back of signatures to give the spine a fan shape.



backing press

Press used to flatten a book so that the joints can be made.

spine of the book

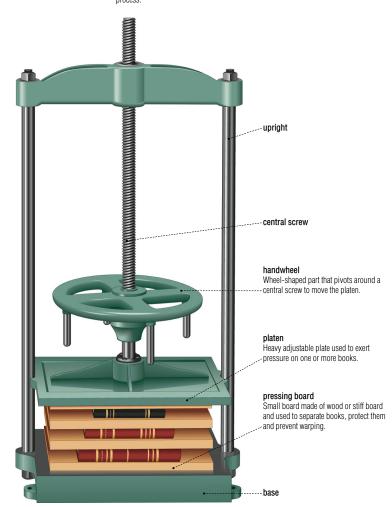


pressing

Process for exerting pressure on a book being bound in order to flatten the signatures and make them more compact.

standing press

Hand-operated machine for pressing books during the binding process.



fine bookbinding

gathering

Process by which signatures are assembled together, in particular by adding endpapers.

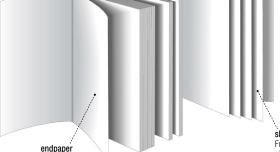
signature

Sheet that is printed and folded to make up a section of a book; it is meant to be combined with other signatures.



bone folder

Very thin blade made from bone or wood; it is used to fold and glue sheets together and to work the bookbinding leather



sheet

Front and back of each sheet in a book signature.

covering

Process of applying a covering material (skin, fabric, paper) to the boards and spine of a book.

Sheet that is folded in half and glued inside the front and back boards to protect the first

bookbinding leather

Animal leather (e.g., goat or calf) used in bookbinding to cover a book.

head

and last printed pages.

The forepart of the bookbinding leather that covered the animal's neck.

neck

The part of the bookbinding leather between the animal's head and shoulders; it is less used than the butt for covering. mainly because it is veiny.

Part of the bookbinding leather that covered the animal's stomach: it is used less often than the butt because it warps easily.

tail

Part of the skin that covered the rear portion of the animal's back and hindquarters; it is seldom used in bookbinding.

butt

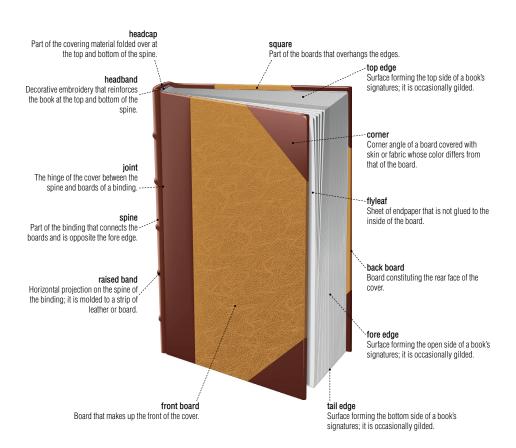
Part of the skin that covered the back and hindquarters of the animal; it is the part most often used for covering because it is thick and supple.

foot

Part of the skin that covered the upper portion of the animal's legs: it is seldom used for covering.

bound book

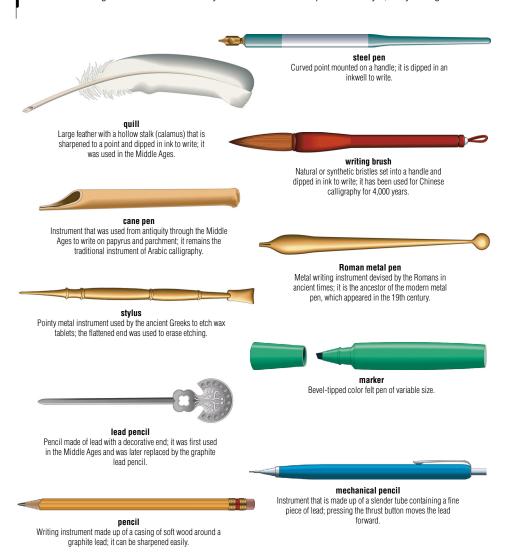
Book whose signatures are sewn together and bound inside a rigid cover made of leather, fabric or paper.



GRAPHIC ARTS

writing instruments

The first true writing instruments were made by the Sumerians in Mesopotamia nearly 5,000 years ago.



writing instruments

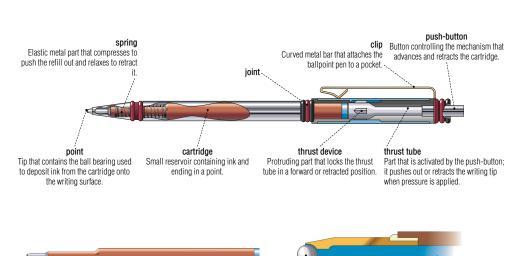
fountain pen

Instrument with a metal nib that is attached to a body containing an ink reservoir, usually in the form of a cartridge.



ballpoint pen

Instrument invented at the beginning of the 20th century; the writing tip holds a small rotating ball.



ball bearing

Small metal ball in the point of the pen;

when turned, it deposits ink from the

cartridge onto the writing surface.

refill
Cartridge that is inserted into the body of a ballpoint pen to refill the ink.

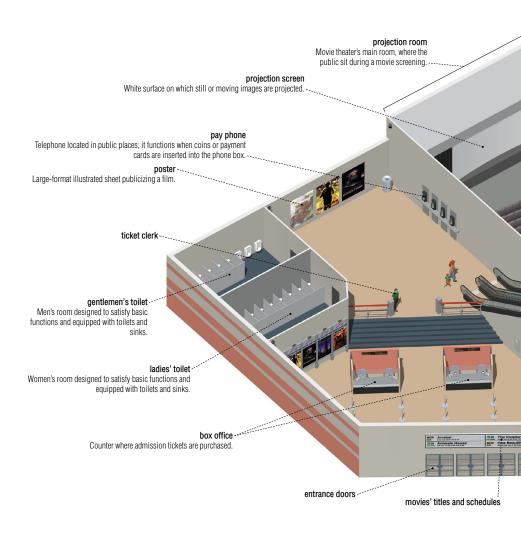
ink

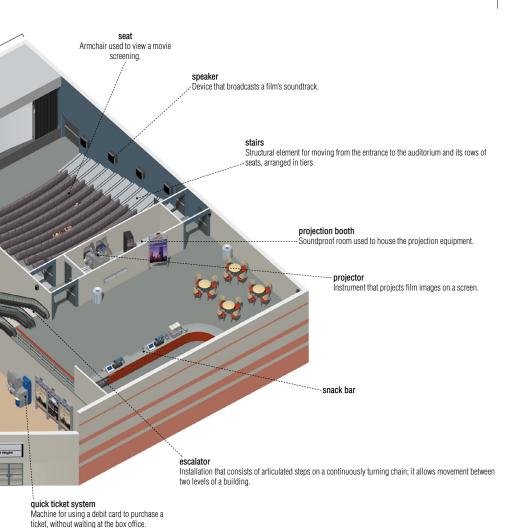
Black or colored liquid used for

writing.

movie theater

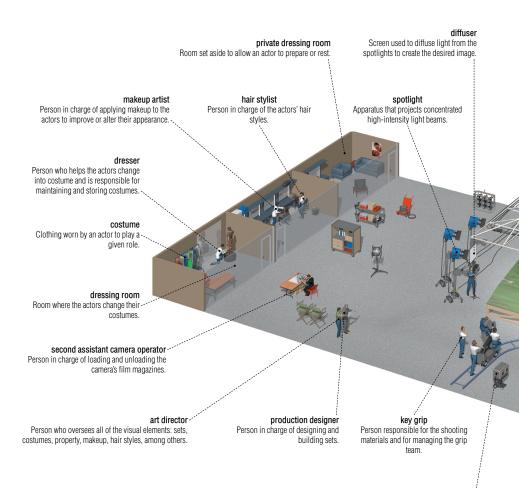
Establishment with auditoriums used for projecting films.





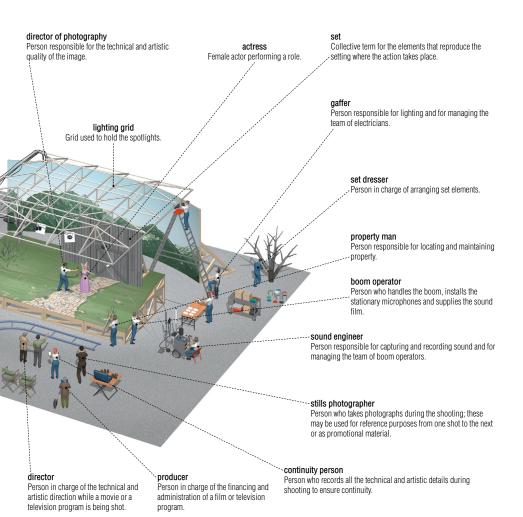
movie set

Sets, materials and personnel needed to shoot a movie or a television program.



director's control monitors

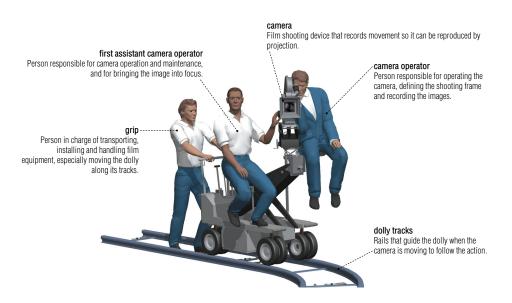
Display screen for checking the quality of the film frame.



movie set

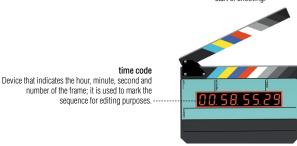
dolly

Small vehicle on rails that carries the camera, the camera operator and the assistant.



clapper/the slate

Panel consisting of two small boards that are clapped together to signal the start of shooting.



mezzanine

Establishment built to present plays, shows, dance performances, concerts and so forth.

parterre The first floor of the house.

The floor above the parterre of the house.

Area of the house located above the mezzanine. GIIIII seat

Armchair used to watch a performance.

balconv

box Small partitioned room that seats two or three people.

the stage.

center







The area seen from the house where the artists perform.

liahts Row of projectors set up above the proscenium. border Horizontal strip of fabric used to hide the parts of the flies that are visible from the house. prompt side The left side of the stage, from the audience.

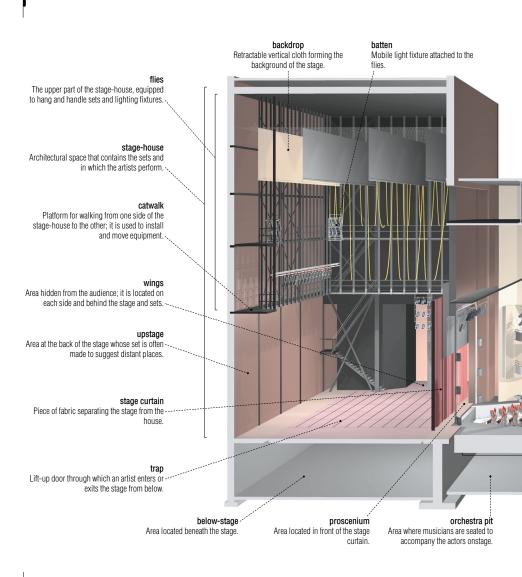


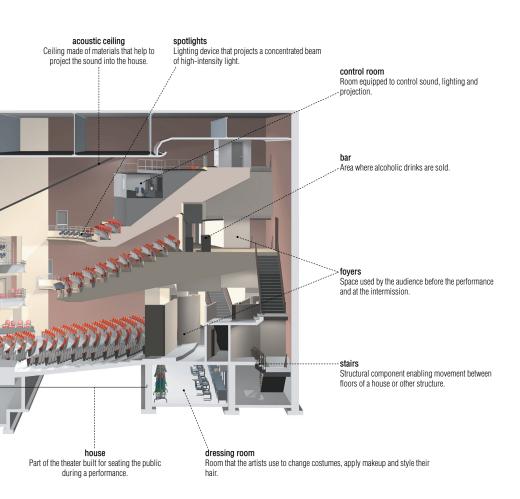
stage curtain

Piece of fabric separating the stage from the house.

opposite prompt side

The right side of the stage, from the audience.





Process that captures an image on a light-sensitive surface by admitting light through a shutter.

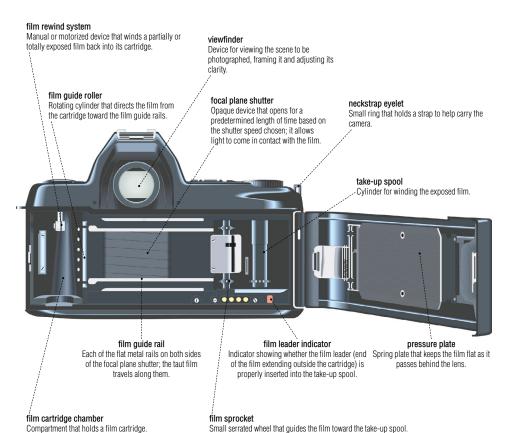
single-lens reflex (SLR) camera: front view

Still camera with an interchangeable lens that can be used for both viewing and shooting, hence the term "reflex".



film reflex camera: camera back

Reflex camera that captures an image on a light-sensitive media (film).



digital reflex camera: control panel

sensitivity

Value describing the sensor's sensitivity to light, generally expressed as an ISO index.

white balance

Correction of colors to compensate for ambient light (daylight, fluorescent or tungsten lighting, etc.)

metering mode

Method of measuring the intensity of the light hitting and reflected by a subject in order to determine the exposure required.

shutter speed

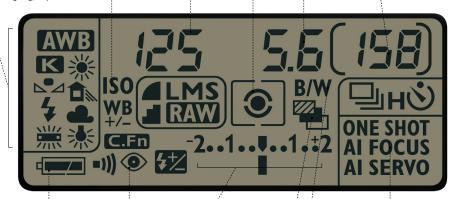
Number indicating the interval of time during which the sensor should be exposed to light, generally measured in fractions of a second.

aperture

Number indicating the aperture of the diaphragm, measured as an f-stop number (the higher the f-stop number, the smaller the aperture).

frames remaining/timer

Display of the number of frames remaining or the time before the taking of a photograph set with the timer.



battery level

Indicator that displays the level of energy in the batteries that supply power to the camera.

red-eye reduction

Mechanism that reduces the red-eye effect by producing a small flash before the main flash goes off.

exposure correction

Number representing the modification made to the exposure data when the user wishes to deliberately underexpose or over-expose the subject.

bracketing

Procedure consisting of photographing a single subject several times while varying the exposure index or the white balance.

autofocus

Automatic focusing function that ensures a sharp image.

black-and-white

Function enabling an image to be recorded using only white, black, and shades of gray.

digital reflex camera: camera back

Reflex camera that contains a sensor and a microprocessor rather than film; they record and store images in digital form on a memory card.

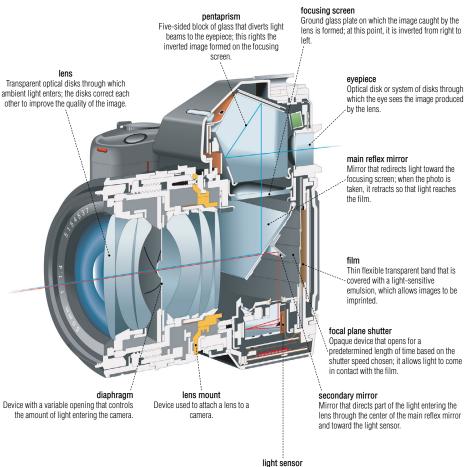


video and digital terminals

Devices for attaching a camera to a television or a computer.

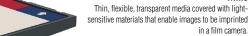
cross section of a film reflex camera

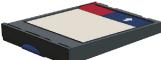
A slanted mirror allows the user to view and shoot at the same time; the mirror flips up when the shutter release button is pressed.



Sensor that measures the light intensity; it is used to determine the correct exposure (shutter speed and diaphragm opening).

films





film pack

Small rigid box containing a certain number of sheet films, which are dispensed successively as the camera operates; they are used in Polaroid® cameras.



sheet film

Semirigid film made to fit specific applications; it is usually loaded into a view camera.



roll film

Band of film with a number of exposures; it is rolled on a spool and used in midsize cameras.



cartridge film

Small lightproof container that holds a roll of film with a number of exposures, which is loaded into a camera.



Very-small-format flash memory card, designed in 2002.



memory cards

Rigid cards used as a storage medium to record photographs taken with a digital camera.



compact flash card

Rigid card used as a storage medium to record photos taken with digital cameras.



Secure Digital card

Small-format flash memory card that includes a copyright-protection mechanism. It was developed in 2000.



Memory Stick

Flash memory card in a rectangular-shape case. It was developed in 2000.

lenses

Lenses are characterized by their focal length (between the optical center and the film), aperture (ratio between the diameter of the lens and the focal length) and angle of view (width of the captured image).

standard lens

Lens that produces an image close to that seen by the human eye.



zoom lens Lens with a variable focal length so

that the visual field can be changed without changing the lens.

focus setting ring

distance scale

focused.

Setting ring that sharpens the image of a subject.

Scale that shows the distance between

the lens and the subject on which it is



lens aperture scale

Graduated scale that controls the diaphragm's opening; it is measured in f-stops and a high f-stop indicates a small opening.

macro lens

Lens designed mainly for close-up shots of small objects.

depth-of-field scale

Scale that shows the zone of sharpest focus around the subject; this is a function of the diaphragm's opening and the distance between the lens and the subject.



fisheye lens

Lens with a very short focal length that covers a visual field of at least a 180°; it creates circular images.



telephoto lens

Lens with a long focal length that enlarges the image of a distant subject but reduces the visual field and the depth of field.

wide-angle lens

Lens with a short focal length that covers a larger visual field than a regular lens and provides significant depth of field.



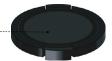
semi-fisheye lens

Lens with a short focal length that covers a wide visual field; it emphasizes the effect of perspective.



lens accessories

lens cap
Part that covers and protects the lens when it is not in-



All the parts that can be attached to a lens to change its focal length or alter the image projected on the film.



lens hood

Cone-shaped device that reduces the effect of intense ambient light to improve the image's contrast.



color filter

---- Colored glass used to alter the characteristics of the light reaching the film.



Optical disk that changes the focal length of the lens so that very near subjects can be photographed.



polarizing filter

--Glass used to reduce reflections from nonmetallic surfaces such as water, glass and asphalt.



objective lens

Optical system made up of a set of lenses fixed on a mount; it allows a clear image to be produced on film.



111111

tele-converter

Component inserted between the camera and the lens to increase its focal length; this enlarges the -image of a distant subject.

still cameras

Cameras whose principal components are a lightproof chamber and an optical system, which causes an image to be imprinted on a light-sensitive surface.



compact camera Small, easy-to-use camera.



disposable camera
Small lightweight easy-to-use camera
containing a film; it is designed to be used
only once.



ultracompact cameraVery small camera, usually completely automatic.



single-lens reflex (SLR) camera

Camera whose interchangeable lens is used to both view and shoot through a slanted mirror that flips up (reflex).



underwater camera

Camera composed of a watertight pressureresistant body; it is used mainly for underwater photography.



Polaroid® camera

Camera that develops photos instantly. After a photo is taken, the exposed film is ejected from the camera and develops automatically in a few minutes.



medium format SLR (6 x 6)

Midsize camera with interchangeable lenses; it produces 6 cm x 6 cm images on a roll of film.



photographic accessories

Add-on devices that improve or change the way a camera operates.



Device that converts chemical energy into electrical energy.





battery pack Device that stores chemical energy during charging and converts it into electrical energy.



battery Device that converts chemical energy into electrical energy to supply power to another device.



Device with a lamp that produces a brief and intense flash of light; it is used to compensate for inadequate lighting.



mounting foot Device used to mount the flash onto the accessory shoe.

flashtube

photographed.

photoelectric cell

Part that concentrates and channels light from the lamp toward the subject to be

Detector that measures the intensity of ambient light and controls the amount of light emitted by the flash.



waterproof case

Rigid container designed to protect a camera from water or bad weather. It is used, among other things, for underwater photography.



cable shutter release

Flexible cable with a trigger that activates the shutter at close range thereby reducing the possibility of moving the camera.

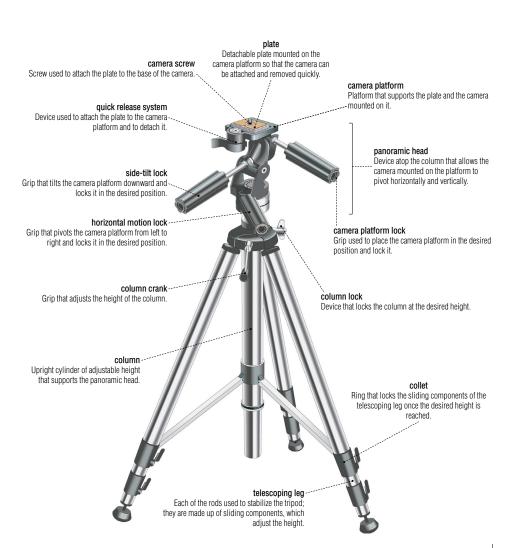


camera bag

Bag with compartments designed to hold and protect a camera and its accessories.

tripod

Adjustable support to which a camera is attached to keep it stable, level and in focus.



darkroom equipment

Material required to process film and to print photographs in a darkened room.



easel

Frame used to hold paper flat under an enlarger; its movable edges make allowance for white margins on the proof.



contact printer

Frame in which negatives come in contact with photographic paper and are exposed to light to print an image of the same size.

developing tank

Lightproof container used during the various stages of processing an exposed film to obtain a negative.



cap

Removable watertight cover allowing film processing products to be mixed in a tank.

· lid

Lightproof tank cover with an opening through which film processing products are added and removed.

eel

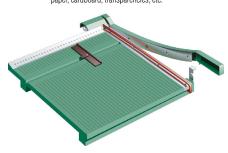
Holder on which the film is wound; it prevents the film from sticking together and ensures uniform distribution of the processing products.

tank

Container used to hold the reel and the products required (developer, stop bath, fixer) for each of the processing steps.

paper cutter

Piece of equipment used to make square cuts in paper, cardboard, transparencies, etc.



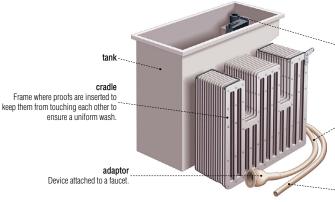
liahtbox

Screen that is illuminated from behind and used to examine items such as negatives, slides, transparencies and drawings.



print washer

Device that uses water to eliminate residual chemicals accumulated during the processing of photographic paper.



overflow tube

Drainpipe for draining off a fixture's overflow when the water level reaches a certain level.

inlet hose

-Flexible hose that carries water from the faucet to the tank.

outlet hose

Hose that uses gravity to drain used water from the tank to a waste collection tub or a sink.



print drying rack

Frame that holds prints once they have passed through the washer so that the water evaporates.

developing baths

Trays used for the various steps in processing exposed photographic paper to obtain a proof in black and white.



developer bath

Tray containing a chemical that acts on light-exposed photographic paper to reveal an image.



stop bath

Tray containing a chemical that stops the action of the developer.



fixing bath

Tray containing a chemical that fixes the revealed image by making the photographic paper insensitive to light.

traditional musical instruments

Collective term for the instruments, current or ancient, that characterize a culture, era or style of music.

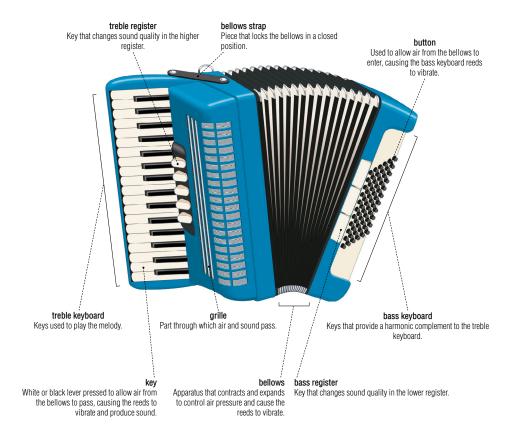
accordion

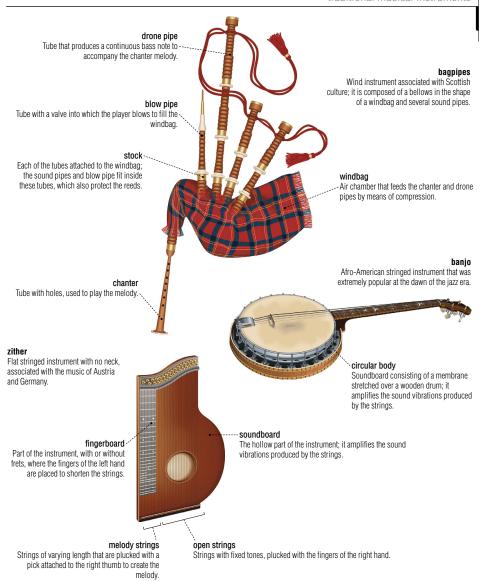
Wind instrument composed of keyboards and a manual bellows used to cause the reeds to vibrate and produce sound.

harmonica

Instrument composed of small tubes with free reeds recessed in a frame, which the player causes to vibrate by exhaling and inhaling.



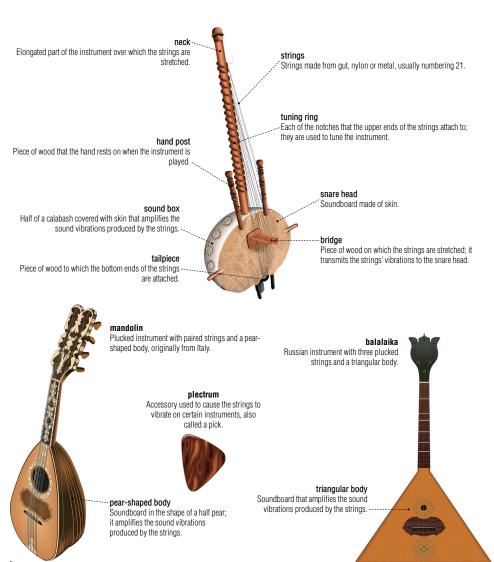




traditional musical instruments

kora

Plucked string instrument used in Africa for celebrations and rituals.



Jew's harp

Instrument composed of a tongue fitted to a frame; the instrument is held against the lips and the mouth is used to alter or amplify the sound vibrations.



tongue

Flexible strip of metal attached to the frame; the player uses a finger to make it vibrate



Curved metal or bamboo rod held against the lips.

lvre

Plucked string instrument used in antiquity.



Horizontal piece of wood supported by the arms, across which the strings are stretched.

arm

Each of the pieces of wood connecting the soundboard to the crossbar.



soundboard

The hollow part of the instrument whose shape varies; it amplifies the sound vibrations produced by the strings. ---



anpip

South American instrument consisting of tubes of unequal length, each of which produces a single note.



drumstick

Curved stick used to strike the skin of the talking drum.



urumstick

Hollow cone-shaped part of the instrument that amplifies the sound vibrations produced by the hands beating on the drum.

Stretched goat or antelope skin that is struck with the hands.



batter skin-

sound box --

Twisting ropes used to tighten the batter skin.



Large chalice-shaped drum used in Africa for celebrations and rituals.



talking drum

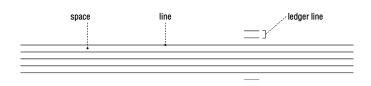
Drum from West Africa that is held in the armpit when played; its hourglass shape allows the tone to be adjusted by applying arm pressure to the tension ropes.

musical notation

Collective term for the signs on a staff that represent sounds and silences as well as value, pitch, measure, rhythm and so forth.

staff

A series of five lines and four spaces on which music is written and read: the lower notes are written on the bottom, the higher notes on the top; the duration of the notes is read from left to right.



clefs

Signs placed at the beginning of the staff and named after the note they refer to.



Key indicating that the second line of the staff corresponds to the note G; it is used to write notes in the middle and treble registers. Key indicating that the fourth line of the staff corresponds to the note F; it is used to write notes in the middle and bass registers. Rarely used clef indicating that the line chosen (first, third or fourth) corresponds to the note C; its use is more specialized.

time signatures

Section of the staff that indicates the meter of a composition, represented by a symbol in the form of a fraction or a letter, a barred C (2/2) or a C (4/4).

three-four time

The top number indicates that there are three beats per measure, the bottom number indicates that each beat is worth a quarter note.

bar line

Vertical line that crosses the staff lines to indicate a change in time signature.



two-two time

The top number indicates that there are two beats per measure, the bottom number indicates that each beat is worth a half note

four-four time

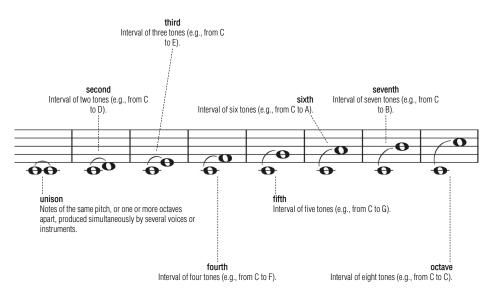
The top number indicates that there are four beats per measure, the bottom number indicates that each beat is worth a quarter note.

repeat mark

Sign that indicates that a section or passage is to be played again.

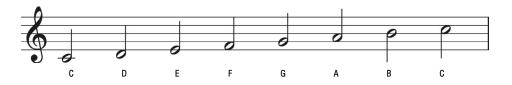
intervals

Difference in pitch between two successive notes (melodic interval) or simultaneous notes (harmonic interval).



scale

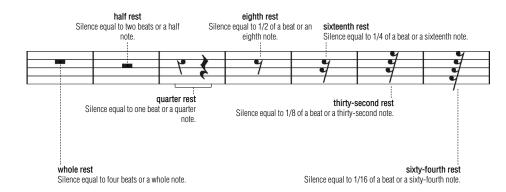
The diatonic scale consists of eight notes, including two semitones between E and F and between B and C. The chromatic scale is composed of 13 notes, all semitones.



musical notation

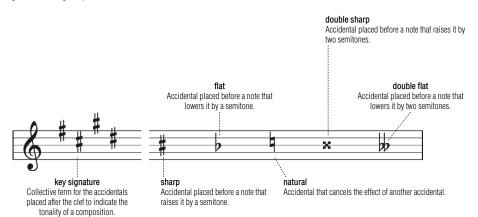
rest symbols

Symbol that marks an interruption of sound; the figure indicates duration and has the same value as the accompanying note.



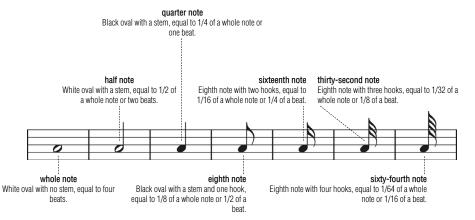
accidentals

Signs used to change the pitch of a note.



note symbols

Measure of a note, determined by its form; the whole note represents the basic unit of time.





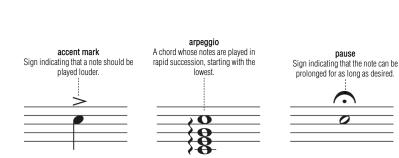
Signs that indicate how a note or series of notes should be played.



Three of more notes played simultaneously.



Curved line indicating that the first note is prolonged by the value of the note or notes following it.

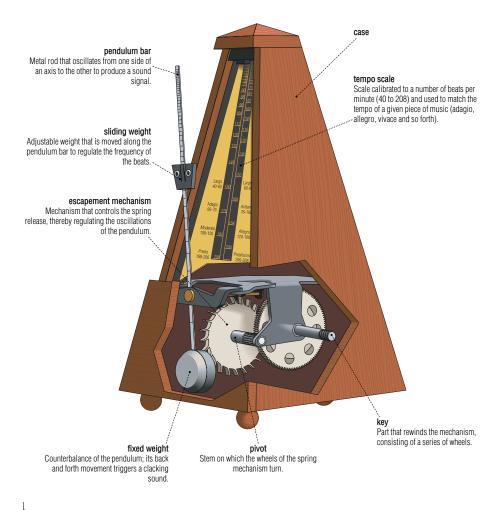


musical accessories

Instruments used by musicians to measure the tempo of a composition, tune their instruments and hold their music.

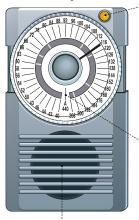
metronome

Spring-activated pendular instrument whose beats can be synchronized with the tempo of a piece of music while practicing.



quartz metronome

Metronome that translates the electric signal produced by a piece of quartz into sound or visual signals.



light signal

Part that translates the electronic beats of the metronome into flashing light.

music stand

Device with an inclined frame where the musician places music so that it can be read comfortably.



Inclined frame on which the musician



places music.

standard A

Reference note established as the international standard; its frequency is 440 Hz (440 vibrations per second).

adjusting lever

Lever that regulates the incline of the music rest.

sound signal

Device that translates the metronome's electric signal into beeps; its volume can be controlled.



Telescopic piece used to adjust the height of the music rest.

tuning fork

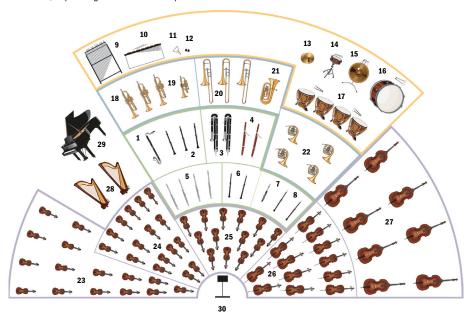
Metal instrument used to tune voices and instruments; by convention, its two vibrating prongs emit an A note.

tripod Solid base with three feet. --



symphony orchestra

Group composed of numerous musicians under the direction of a conductor; it includes various categories of instruments, depending on the work to be performed.



woodwind family

Group of wind instruments originally made from wood.

bass clarinet

 Clarinet with a curved tube; its range is one octave lower than the ordinary clarinet.

clarinets

Single-reed instruments whose

2 cylindrical tube contains holes (some closed by keys) and ends in a flared hell

contrabassoons

 Double-reed wind instruments consisting of several tubes; their range is one octave lower than the bassoon.

bassoons

Double-reed instruments consisting of 4 a curved conical wooden tube; the double-reed is inserted into a curved mouthpiece.

flutes

Instruments with a side mouthpiece and a tube containing holes, some of which are closed by keys.

oboes

6 Double-reed instruments consisting of a conical tube with holes (some closed by keys) and a slightly flared bell.

piccolo

7 Small transverse flute whose range is an octave higher than the regular transverse flute.

English horns

Alto oboes with a pear-shaped bell.

percussion instruments

Group of instruments that are struck directly with the hands or with sticks, mallets, etc. to produce a sound.

tubular bells

Series of metal tubes arranged

vertically in order of size; small
hammers are used to strike the tops of
the tubes.

xylophone

Instrument consisting of wooden bars placed on top of resonators arranged in chromatic order in two rows; the bars are struck with mallets.

triangle

 Instrument composed of a metal bar bent to form a triangle open at one end; the triangle is struck with a metal rod.

castanets

 Instrument composed of two shellshaped pieces of wood held in one hand and struck together using the fingers.

cymbals

13 Instrument consisting of two metal disks that are struck together.

snare drum

 Flat drum consisting of two membranes; stretched across the lower head are snares that produce a rattling sound.

gong

15 Instrument consisting of a large metal disk with a raised central portion that is struck using a mallet.

bass drum

Large drum set on a vertical frame and struck using a pedal-controlled wooden mallet.

timpani

17 Instruments consisting of a parabolic copper basin covered with a stretched batter head that is struck with a mallet.

brass family

Group of wind instruments made from metal and played with cup-shaped mouthpieces.

trumpets

Valved instruments consisting of a curved cylindrical tube and a flared bell.

cornet

19 Valved instrument consisting of a curved conical tube and a flared bell.

trombones

- 20 Instruments consisting of a curved tube with a slide that is lengthened to produce notes varying in pitch by semitones.

tuba

Valved instrument whose tonal range is

21 the lowest in the brass family; it consists
of a coiled conical tube and an upturned
bell.

French horns

22 Valved instruments consisting of a coiled conical tube and a flared bell.

violin family

Group of stringed instruments played with a bow.

23 first violins

The violins that play the melody.

second violins

24 The violins that support the first violins.

violas

Four-stringed instruments similar to a violin but played a fifth lower.

cellos

Four-stringed instruments placed between the legs when played; they are about twice the size of a violin and their range is one octave lower than the viola.

double basses

Four- or five-stringed instruments played upright; the largest of the violin family, they also have the lowest range.

harps

Plucked stringed instruments consisting of strings of unequal length attached to a triangular frame.

piano

Piano whose mechanism is horizontal, allowing the pianist to better control the sound; it varies in size from 8 to 9 ft.

conductor's podium

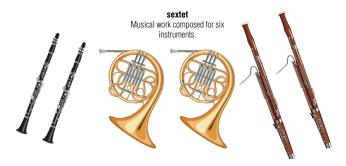
30 Small dais that the conductor stands on to direct the musicians as they play.

examples of instrumental groups

Instrumental groups: groups of two or more instruments and musicians; a group's composition depends on the work being played.

Musical work composed for two instruments. trio Musical work composed for three instruments. quartet Musical work composed for four instruments; the most common, the string quartet, features two violins, a viola and a cello.





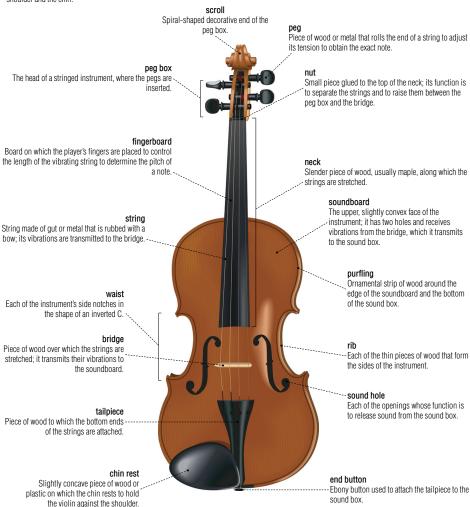


stringed instruments

Instruments whose sound, amplified by a sound box, is produced by the vibration of plucked or bowed strings stretched along a neck.

violin

Four-stringed instrument that the musician plays with a bow and holds between the shoulder and the chin



bow

A wooden stick with horsehair stretched from end to end; by means of friction, it makes the strings of an instrument vibrate.

violin family

Group of stringed instruments played with a bow.

head

The upper end of the bow.

point

Part that secures the horsehair to the upper end of the bow.

stick

Thin flexible rod curved along a third of its length and along which hair is stretched. ----

hair

Part of the bow consisting of horsehair that is rubbed across the strings to make them vibrate.

handle

Part held when the bow is used.

heel

The lower end of the bow.

frog

Sliding part that secures the hair to the lower end of the bow; the frog is moved to adjust the tension of the hair.

screw

Threaded piece that moves the frog.

viola

Four-stringed instrument slightly larger than the violin; its range is a fifth lower than the violin.



cello

Four-stringed instrument held between the legs when played; it is about twice the size of the violin and its range is an octave lower than the viola.



violin

Four-stringed instrument that the musician plays with a bow and holds between the shoulder and the chin.



double bass

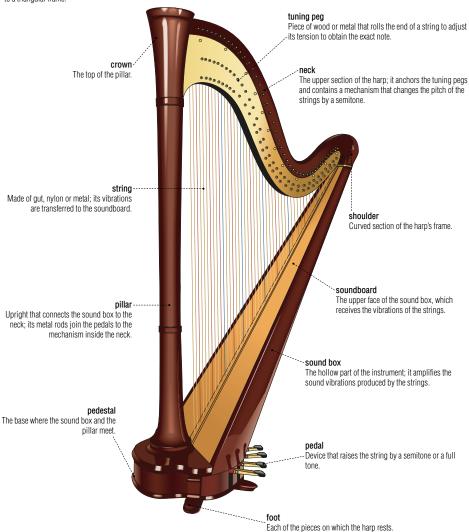
Four- or five-stringed instrument, played upright; the largest member of the violin family, it also has the lowest range



stringed instruments

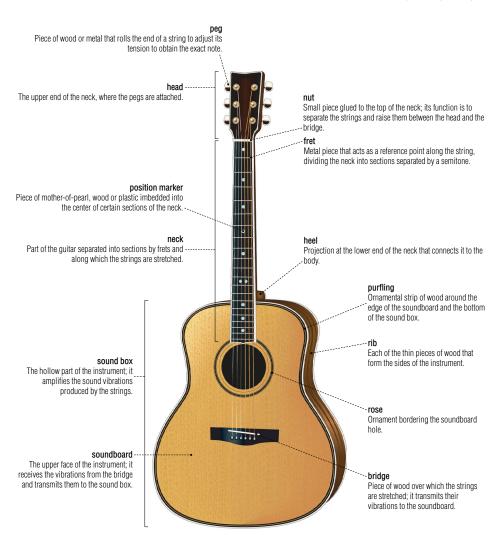
harp

Plucked stringed instrument consisting of strings of various lengths attached to a triangular frame.



acoustic quitar

Plucked stringed instrument whose hollow body amplifies the vibrations produced by the strings.



stringed instruments

electric quitar

Guitar with microphones that convert string vibrations into electric signals, which are then amplified and converted into sound. head tuning peg-The upper end of the neck where the tuning pegs are Device that adjusts the tension of the strings. attached. Small piece glued to the top of the neck: its function is to separate the strings and raise them between the head and the bridge. fret Metal piece that acts as a reference point along the string, dividing the neck into sections separated by a semitone. fingerboard Board on which the player's fingers are placed to control the length H neck of the vibrating string to determine the pitch of a note. Part of the guitar separated into sections by frets and along which the strings are stretched. position marker bass pickup Device that converts low-frequency string vibrations Piece of mother-of-pearl, wood or plastic imbedded into into electric signals. the center of certain sections of the neck. . vibrato arm midrange pickup Device that raises and lowers the bridge to Device that converts middle-frequency string adjust string tension and thereby alter the vibrations into electric signals. . nitch of the notes treble pickup volume control Device that converts high-frequency string Button that controls the loudness of the vibrations into electric signals. instrument tone control Button that adjusts the frequency of the bridge assembly electric signals in order to control the Assembly consisting of the bridge, the tailpiece tone of the guitar. and the vibrato arm. output jack Plug for the cable that transmits the body Hollow nonresonant part of the electric signals to the amplifier. instrument where the guitar's electrical components are housed.

bass quitar

Guitar whose tonal range is lower than that of the electric guitar; it usually has four strings.

Device that adjusts the tension of the strings.

tuning peg

nut-

Small piece glued to the top of the neck; its function is to separate the strings and raise them between the head and the bridge.

fret

Metal piece that acts as a reference point along the string, dividing the neck into sections separated by a semitone.

position marker

Piece of mother-of-pearl, wood or plastic imbedded into the

strap system -

pickups

Device that converts the vibrations of the strings into electric signals.

bridge

Piece over which the lower ends of the strings stretch; it also attaches them to the body.

body

Hollow nonresonant part of the instrument where the guitar's electrical components are housed.

пеас

The upper end of the neck where the tuning pegs are attached.

fingerboard

Board on which the player's fingers are placed to control the length of the vibrating string to determine the pitch of a note.

necl

 Part of the guitar separated into sections by frets and along which the strings are stretched.

bass tone control

Button that adjusts the frequency of the electric signals produced by the bass microphone.

treble tone control

Button that adjusts the frequency of the electric signals produced by the treble microphone.

halancer

Button that lets the player choose between one or both microphones.

volume control

Button that controls the loudness of the instrument.

keyboard instruments

Instruments with a series of keys that are pressed to strike or pluck strings and thereby produce sound.

upright piano

A stringed instrument whose strings are struck by hammers controlled by the keys on a keyboard; its soundboard and strings are arranged vertically.

pressure bar

Metal bar under which the strings pass, marking the top of the section of vibrating strings.

muffler felt

Strip of felt that comes between the strings and the hammer heads when the muffler pedal is pressed; it lowers the volume of sound. -

strings

Metal wires stretched between two fixed points; the hammers strike them, causing them to vibrate and produce sound.

treble bridge

Piece of wood over which the strings in the treble range are stretched: it transmits their vibrations to the soundboard.

bass bridge

Piece of wood over which the bass strings are stretched; it transmits their vibrations to the soundboard

pedal rod

Piece of wood that connects the pedal to the mechanism

soft pedal

In the upright piano, it brings the hammers closer to the strings to reduce their impact; in a grand piano, it limits the hammer impact to a section of the string.

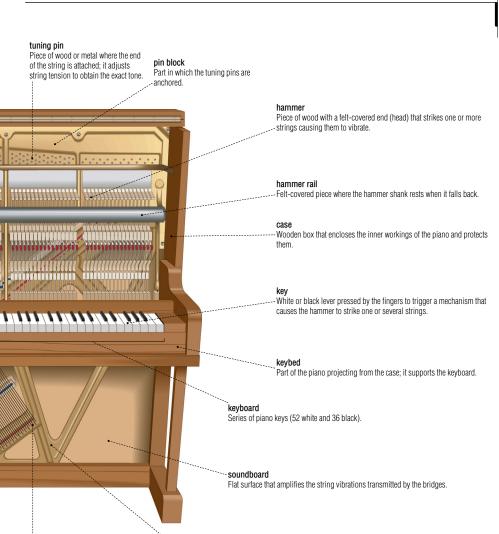
muffler pedal -

In an upright piano, it lowers the muffler felt; in a grand piano, it prolongs the notes Pedal that increases the duration of string resonance by (sostenuto pedal).

damper pedal

keeping the dampers raised.





metal frame

Metal body that supports the tension of the strings.

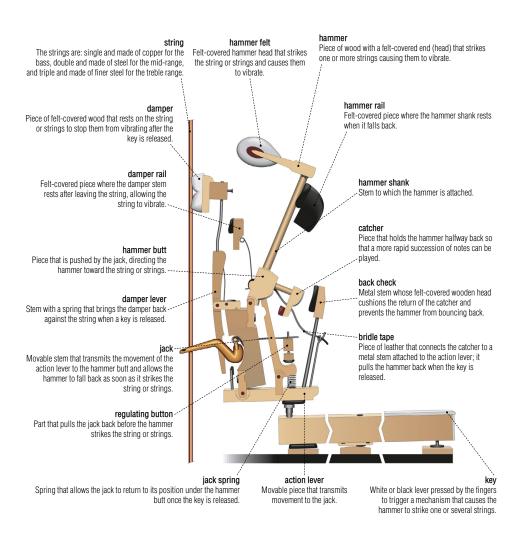
hitch pin

Piece attached to the metal frame: the

lower end of the string attaches to it.

upright piano action

Combination of elements whereby energy applied to a key is transferred to the hammer, which in turn causes the strings to vibrate.



examples of keyboard instruments

concert grand

Piano whose mechanism is horizontal, allowing the pianist to better control the sound; it varies in size from 8 to 9 ft.

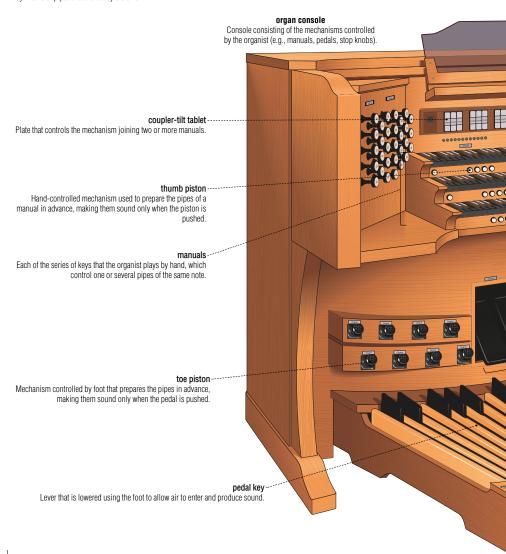


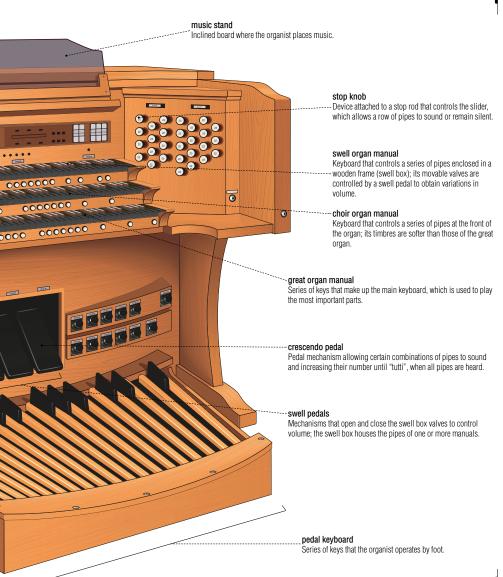
harpsichord

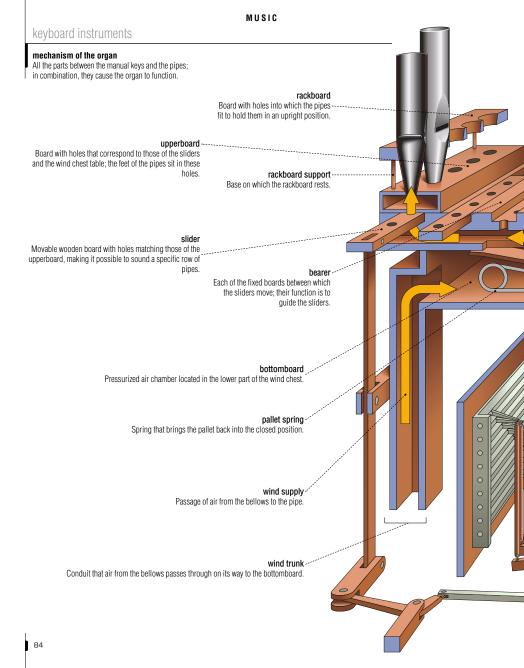
keyboard instruments

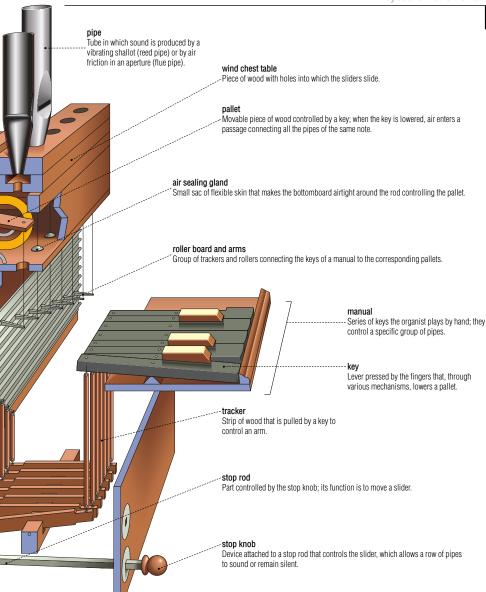
organ

Wind instrument with several keyboards; it produces sound by means of pipes that are fed by a blower.





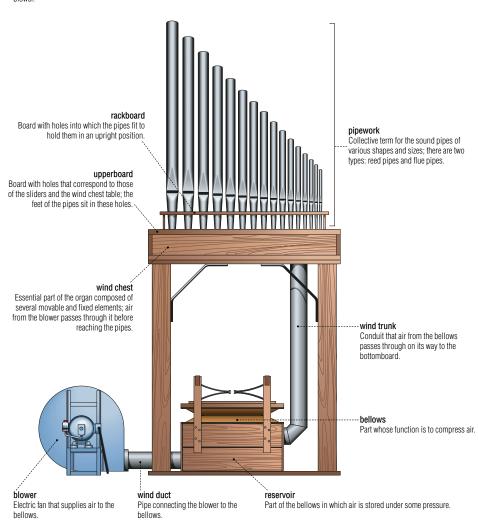




keyboard instruments

production of sound

The sound made by the organ pipes is generated by a supply of air from an electric blower.







tuning wire

Metal stem that adjusts the length of the shallot's vibrating part to tune the pipe.

block

Movable part inserted into the foot of the pipe; its lower end holds the shallot.

Piece of wood that attaches the tongue to the upper end of the pipe.

tongue

Small sheet of flexible metal that vibrates on the open face of the pipe; the amplitude of the vibrations determines the pitch of the note.

flue pipe

Pipe that vibrates when pressurized air passes through a narrow horizontal aperture called the mouth.

foot hole -

upperboard.

foot

Opening through which air from the blower enters the pipe.

which air enters; it is attached to the

body

Upper part of the pipe; it controls the volume of vibrating air and acts as a resonator

upper lip

languid

Flat part of the pipe that breaks up the air exiting the flue, causing the air column in the body to vibrate.

Horizontal aperture on the front of the pipe between the body and the foot; air escapes through it to produce sound.

Metal plate that the air strikes before exiting the flue.

Narrow slit through which air from the foot passes after hitting the languid.

lower lip

Flat portion of the foot; it forces air onto the languid.

Lower part of the conical pipe through which air enters: it is attached to the upperboard.

foot hole

Opening through which air from the blower enters the pipe.

wind instruments

Collective term for instruments that produce sound by blowing, which causes the air column inside the tube to vibrate; a reed or the lips are used to play them.

saxophone

Single-reed instrument consisting of a conical copper tube with a flared bell and holes closed by keys.

mouthpiece -

Beveled mouthpiece similar to that of the clarinet; the reed attaches to its flat surface and the player blows into it.

Part used to produce sound; it consists of a tongue that vibrates against the edge of the instrument's mouthpiece.

ligature

Part that attaches the reed to the flat surface of the mouthpiece.

crook key Key that opens and closes the instrument's smallest hole, located on the crook.

Curved part connecting the

mouthpiece to the body.

octave mechanism

Part that increases the pitch of the notes by an octave.



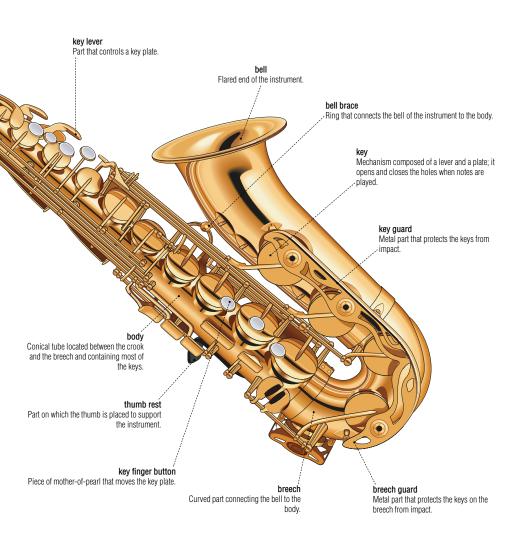
double reed

Part of the mouthpiece used to produce sound; it consists of two tongues that vibrate against each other.



sinale reed

Part used to produce sound on a woodwind instrument; it consists of a tongue that vibrates against the edge of the mouthpiece.





Alto oboe with a pear-shaped bell.

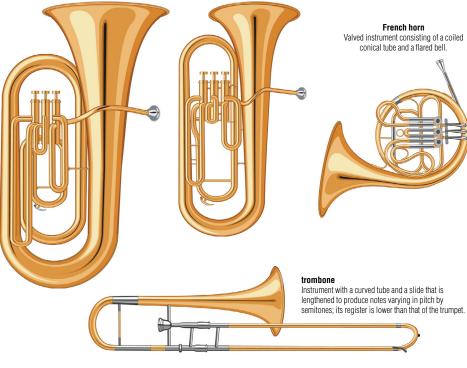
the base.

tuba

Valved instrument whose tonal range is the lowest in the brass family; it consists of a coiled conical tube and an upturned bell.

saxhorn

Valved instrument whose range is a fifth lower than the cornet; it consists of a curved conical tube and a large bell.





cornet

Valved instrument consisting of a curved conical tube and a flared bell.



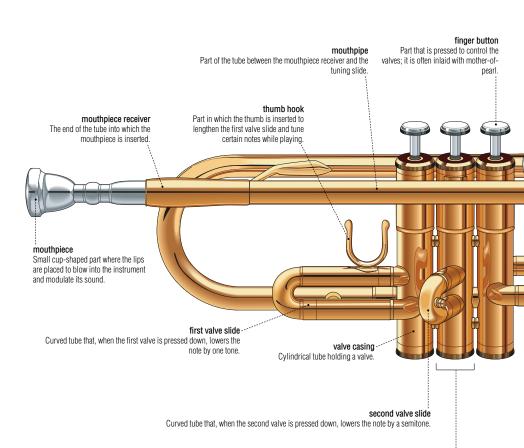
bugle

Instrument with a conical tube and no valves or keys; it is used mainly for military calls.

wind instruments

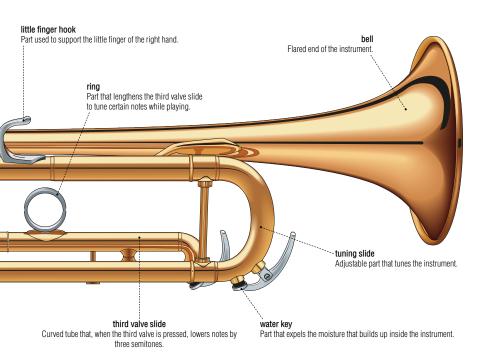
trumpet

Valved instrument consisting of a coiled cylindrical tube and a flared bell.



valve

Device that produces different notes by lengthening the air column inside the tube and releasing the slides.





percussion instruments

Group of instruments that are struck directly with the hands or with sticks, mallets, etc. to produce a sound.

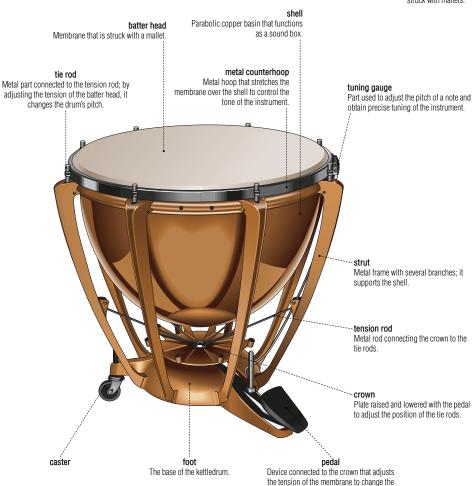
drums

All the percussion instruments played by a single musician, the drummer.



kettledrum

Instrument consisting of a parabolic copper basin covered with a stretched membrane that is struck with mallets



tuning of the instrument.

percussion instruments

snare drum

Flat drum consisting of two membranes; stretched across the lower membrane are snares that produce a rattling sound.

Part that secures the metal hoops that stretch the membranes.

tension rod

Device that brings the snare closer to or farther from the snare head.

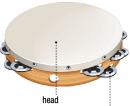
tambourine

Instrument consisting of a wooden hoop covered with a membrane and fitted with jingles; it can be struck, brushed or shaken



snare strainer

Knob that adjusts snare tension and tone.



Small cymbals that knock together when the tambourine is shaken

jingle

snare head

Soundboard over which the snare is stretched

snare

Metal snares that vibrate on the snare head when the batter head is struck. producing a rattling sound.

Membrane struck with the palm or the thumb



bonaos

Instrument consisting of two small connected drums: they are usually struck with the hands



Sticks of wood with olive-shaped heads used to strike a percussion instrument.



wire brush

Instrument consisting of extremely fine steel wires that are brushed across a cymbal or the batter head on a snare drum.

mallets

Metal or wooden rods whose end (made of felt, skin, rubber, etc.) is used to strike an instrument.



sleigh bells

Set of hollow metal pieces with a freemoving steel ball inside; they are tied to a ribbon and used as accompaniment.



ribbon and used as accompaniment.



castanets

Instrument composed of two shellshaped pieces of wood held in one hand and struck together using the fingers.



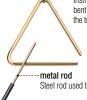
gong

Instrument consisting of a large metal disk with a raised central portion that is struck using a mallet.



triangle

Instrument composed of a metal bar bent to form a triangle open at one end; the triangle is struck with a metal rod.



xylophone

Steel rod used to strike the triangle.

Instrument consisting of wooden bars placed on top of

resonators arranged in chromatic order in two rows; the bars



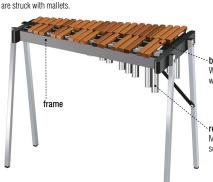
sistrum

Instrument consisting of a frame with crossbars and attached metal disks that knock together when the instrument is shaken.



cymbals

Instrument consisting of two metal disks that are struck together.



Wooden slats that the player strikes with mallets.



Metal tube whose function is to amplify sound.

tubular bells

Series of metal tubes arranged vertically in order of size; small hammers are used to strike the tops of the tubes.

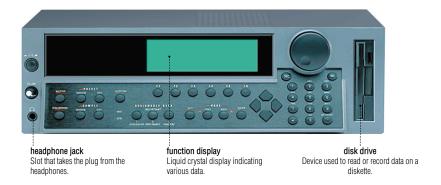


electronic instruments

Electronic instruments are designed to imitate, convert or produce sounds based on electric signals and digital data.

sampler

Component that digitizes and stores sounds based on recordings of various acoustic sources, and reconverts them into sound signals.



sequencer

Component used to record, read and change MIDI data, the digital data used to create electronic music.



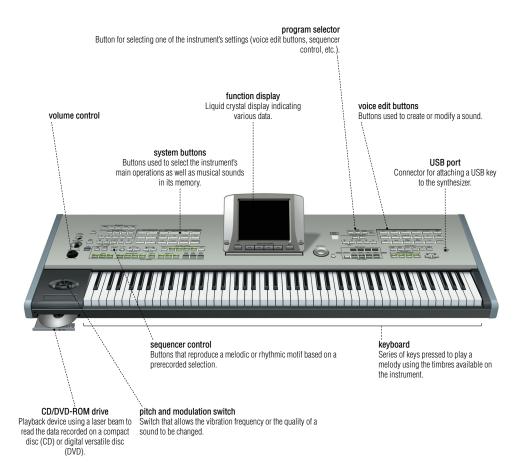
expander

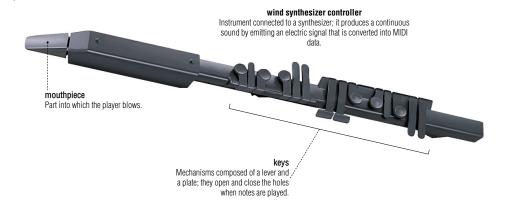
Synthesizer used to produce sounds based on digital data transmitted by a keyboard, a sequencer or a computer.



synthesizer

Instrument that imitates other instruments or creates new sounds using electric signals.





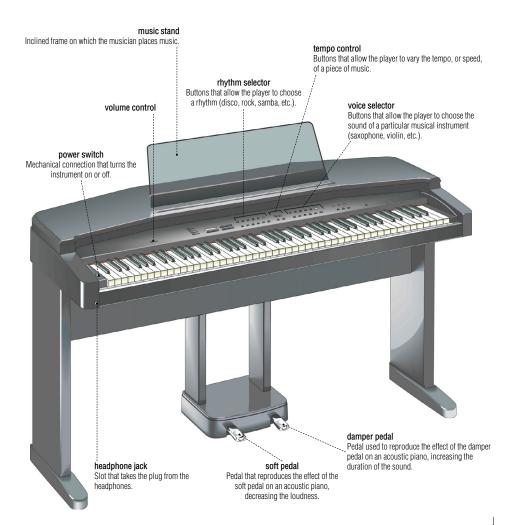
musical instrument digital interface (MIDI) cable

Cable connecting two MIDI instruments; the MIDI interface is used to transfer digital data and electric signals.



electronic piano

Piano designed to reproduce the sound of an acoustic piano by converting it into digital data; it also reproduces the sound of other instruments.

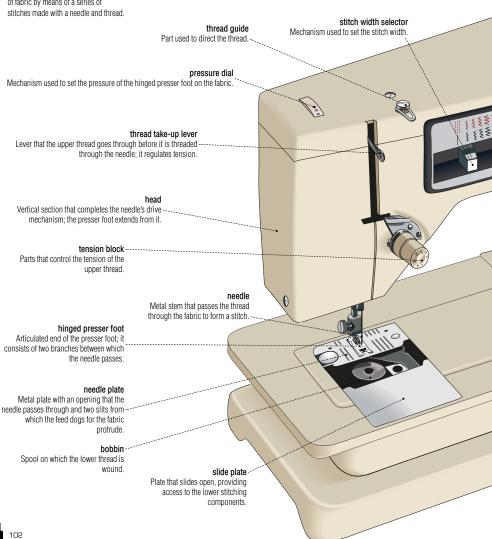


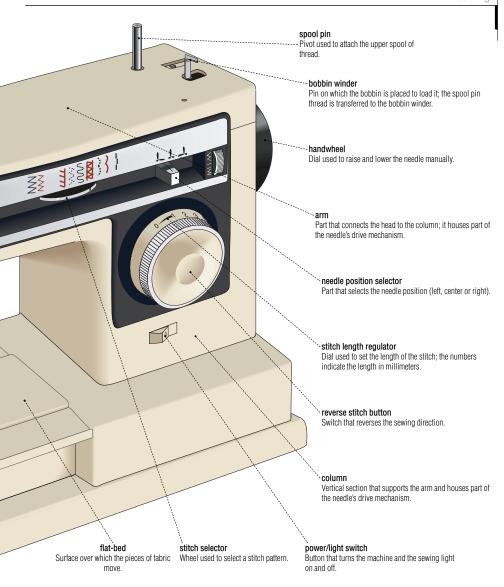
sewing

Process of joining two items using a needle and a thread.

sewing machine

Machine used to assemble two pieces of fabric by means of a series of





sewing

bobbin case

Case placed under the needle plate; the bobbin fits inside it.



hohhin

Spool on which the lower thread is wound.



latch lever

Mechanism that the bobbin fits into and that regulates lower thread tension.



hook

Fixed lower component containing the latch lever.

foot control

Mechanism operated by foot; it controls the sewing machine's electric motor.

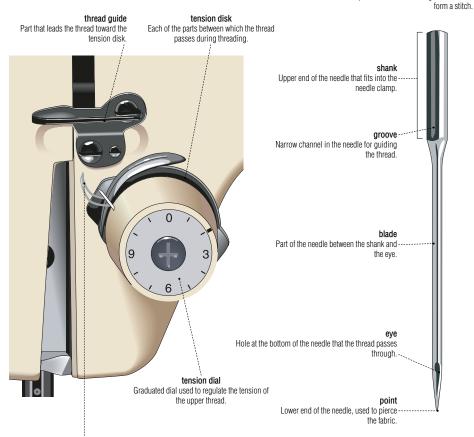
connecting terminal Part that connects the speed controller to the sewing speed controller Pedal that regulates the speed of the machine's electric motor; the greater



tension block

Parts that control the tension of the upper thread.

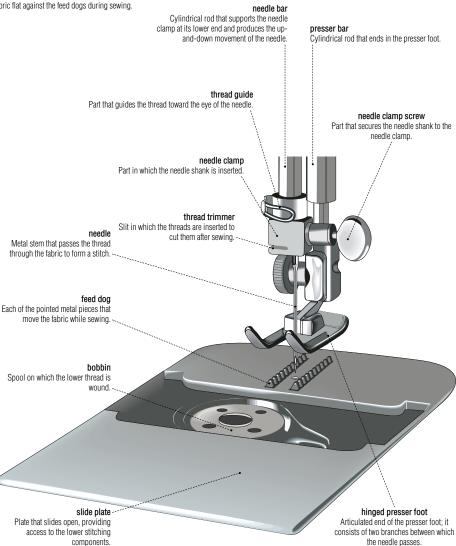
needle Metal stem that passes the thread through the fabric to



tension spring Spring that keeps the upper thread between the tension disks.

presser foot

Part of the sewing machine that keeps the fabric flat against the feed dogs during sewing.



fasteners

Accessories used to open or close a garment.



Curved metal stem that forms a spring; the pointed extremity of its flexible arm is kept in place by a hook.

zipper



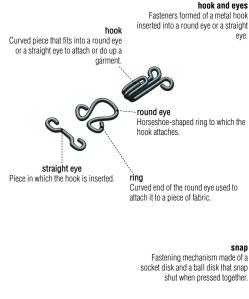
sew-through buttons Buttons with two or four holes that the thread passes through to sew them to a piece of fabric.



shank button Button with a metal ring that the thread passes through to sew it to a piece of

Closure made up of two lengths of tape edged with teeth that interlock by means of a slide. tooth Each of the metal pieces that mesh when the slide is pulled. slide Sliding part that joins or separates the two rows of teeth on the zipper. Metal piece used to move the slide. Strip of fabric to which the teeth are attached: it is sewed to each side of the fabric's seam. stop Metal piece that stops the slide at the

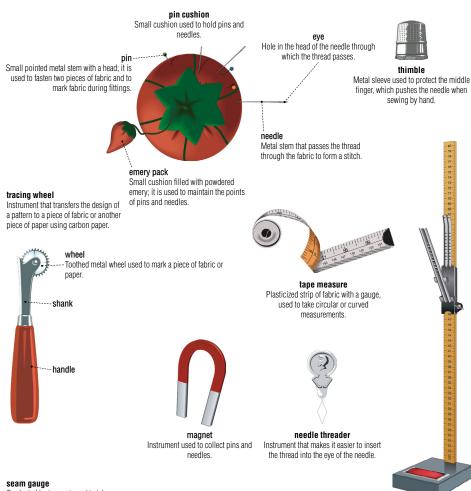
lower end of the zipper.



socket ----

ball

accessories

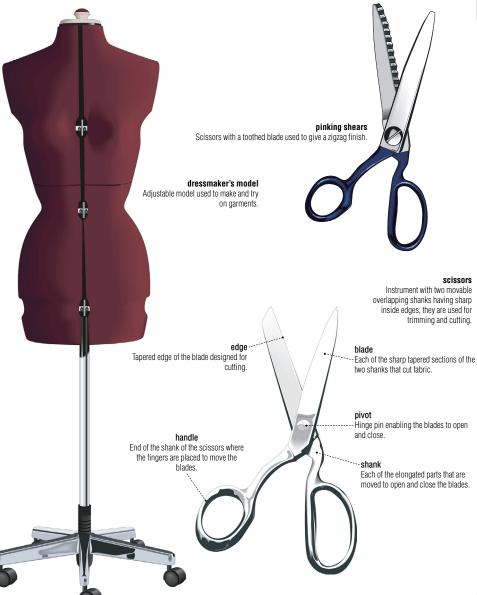


Graduated instrument used to take measurements, make checked patterns, trace seam lines, etc.

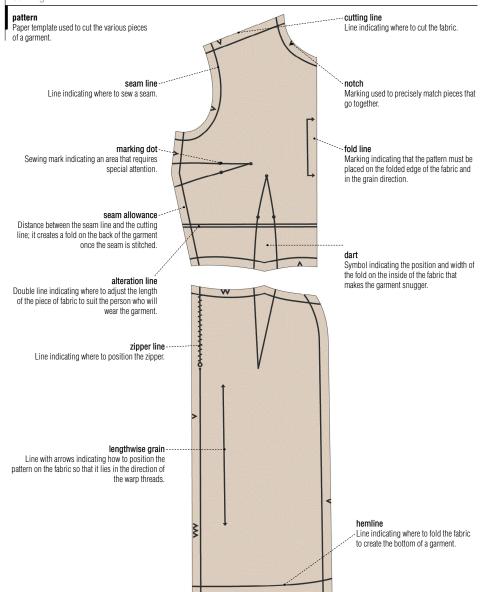


skirt marker

around the garment.

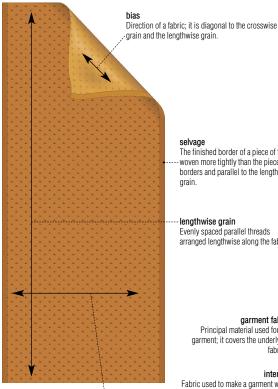


sewina



fabric structure

The way the threads of the material are put together during weaving.



crosswise grain

The threads that are passed through the lengthwise grain from one selvage to another; it is the width of the fabric.

underlying fabrics

Fabrics used to hold the shape of a garment and give it a professional finish.



lengthwise grain

Evenly spaced parallel threads arranged lengthwise along the fabric.

garment fabric

Principal material used for the garment; it covers the underlying fabrics.

interlining

Fabric used to make a garment warmer.

Soft fabric cut from the same pattern as the garment inside which it is sewn; it gives body to the garment, embellishes it, hides its seams and makes it warmer.



Fabric used to hold the shape of the garment and make it more opaque.

interfacing

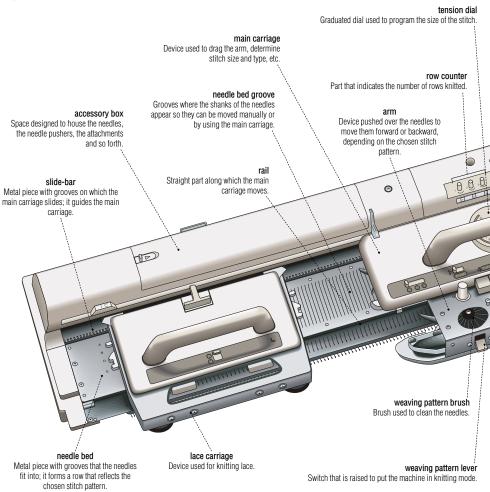
Tear-resistant fabric used to hold the shape of the garment and give it body.

knitting machine

Machine used to knit fabrics mechanically.

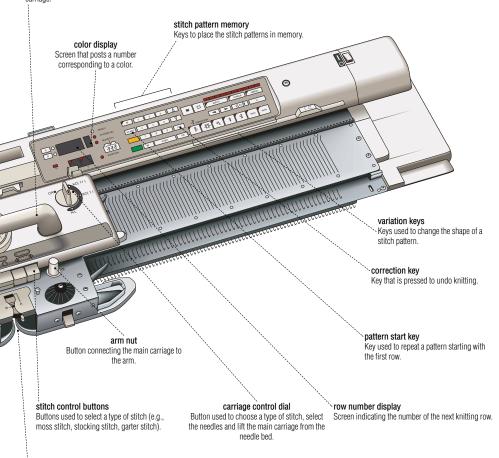
needle bed and carriages

Metal piece with grooves in which the needles are inserted; the carriages slide over it to create a knit.



carriage handle

Part used to hold and move the main carriage.

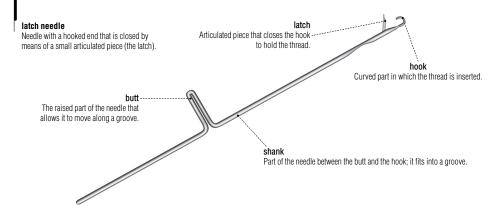


yarn feeder

Part in which the thread is inserted.

knitting machine

tension block



Parts used to control thread tension. tension disk Each of the parts between which the thread passes during threading. tension dial Button that adjusts the tension based on the type of thread. tension spring Spindle that maintains thread tension. yarn rod Piece connected to the knitting machine; its yarn tension unit ... function is to support the tension mechanism. Piece used to guide the thread toward the tension spring and keep it taut. eyelet Hole through which the thread is passed. yarn clip tension guide Piece that holds the thread when it is Part used to direct the thread. not being used.

Creating fabric by using needles to form interlacing stitches.

knittina needle

Rigid cylindrical rod used in pairs to knit a piece of fabric.



head

Piece that holds the stitches and prevents them from sliding off the shank.

shank

Elongated thin part between the head and the point; its length and diameter vary, depending on the desired stitch.

flat part

point

Tapered end allowing the needle to be easily inserted in the stitches.

crochet hook

Instrument used to recover a lost stitch, create trim and certain seams,

The curved extremity used to catch the thread. Flat section used to handle the crochet hook.

hook

circular needle

Needle used for circular knitting, for seamless pieces or flat pieces with a great number of stitches.

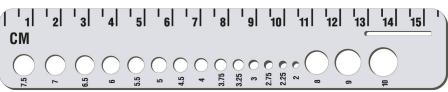
cast-on stitches

Loops that form the starting point of a piece of fabric.



knitting measure

Instrument used to measure the diameter of needles and to take measurements of a work in progress.



stitch patterns

Arrangement of groups of stitches in one or several rows; they are worked until they form a regularly repeated design or feature.



moss stitch

Stitch obtained by alternating a plain stitch with a purl stitch on one row, and then reversing the order on the next.



sample

Square sample used to calculate the number of stitches and rows on a 2 in² surface so that a consistent pattern can be established



rib stitch

Stitch obtained by alternating plain and purl stitches and by repeating the same order on the following rows.



stocking stitch

Stitch obtained by alternating a plain row with a purl row.



basket stitch

Stitch obtained by alternating squares composed of plain stitches with squares composed of purl stitches.



garter stitch

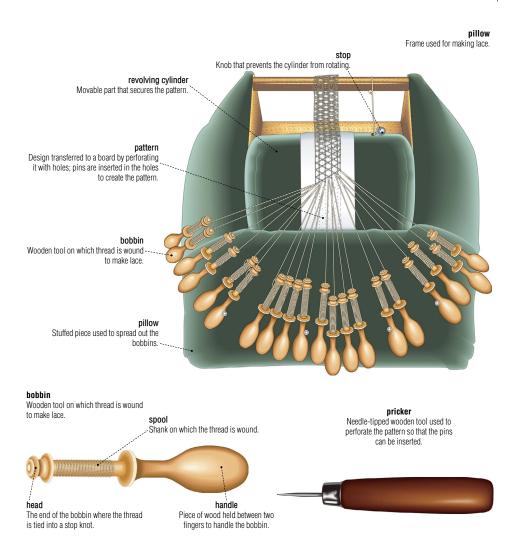
Stitch obtained by a succession of plain stitches on all the rows.



cable stitch

Stitch obtained by reversing the stitches on a row to form an overlap.

Openwork fabric created by interlacing thread on bobbins, using a pillow to secure the model to be reproduced.

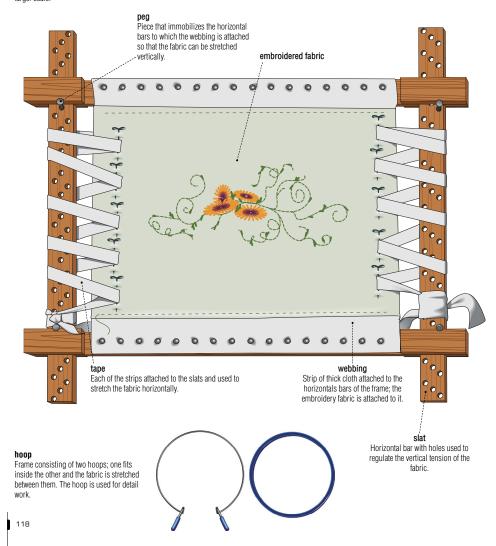


embroidery

Art of stitching designs on fabric, usually using a needle and thread.

frame

Device on which embroidery fabric is stretched; it is used for work on a larger scale.



stitches

There are more than 100 embroidery stitches, grouped into various categories.

cross stitches

Stitches made up of a succession of diagonal straight stitches that meet and then change direction.



chevron stitch
Stitch consisting of diagonal straight
stitches that meet at the top and bottom
of two parallel rows.



herringbone stitch Stitch composed of intersecting diagonal straight stitches following two parallel lines.



loop stitches
Stitches forming an open or closed loop.



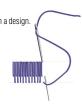
chain stitch
Stitch created by forming closed loops that are repeated like the links in a chain.

Chain stitch

feather stitch
Stitch created by forming successive open loops, linked or unlinked.



fishbone stitchOblique stitch alternately arranged on the left and right of an imaginary axis.



long and short stitch
Stitch consisting of overlapping rows
of long and short stitches to cover a
surface.

knot stitches

Stitches created by winding the thread around the needle.



bullion stitch Stitch created by rolling the thread several times around the needle and eigesting the needle a little father or

reinserting the needle a little farther on to create a line of thread.



Stitch created by rolling the thread two or three times around the needle and reinserting it very close to the original point of insertion to create a cluster.

couched stitches

Stitches used to fill in and give relief to a design.



Oriental couching stitch

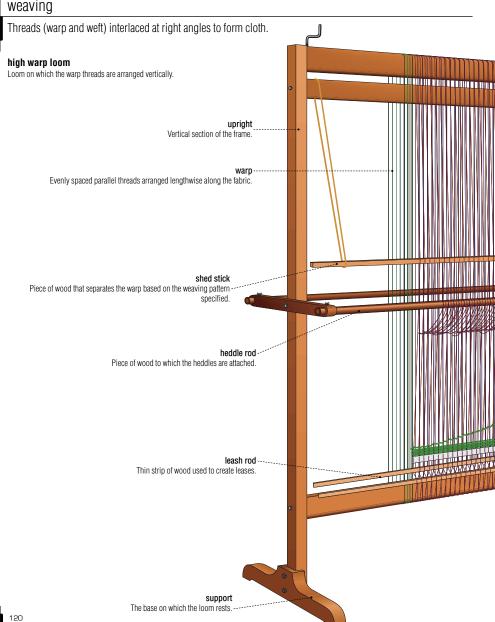
Vertical stitches are crossed with horizontal lines held together by isolated stitches staggered from one row to the next.

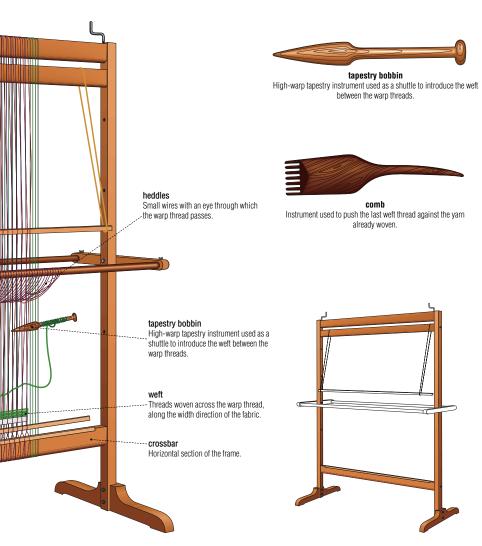


Romanian couching stitch

A stitch forms the base of the embroidery over the entire width of the line, and an angled or vertical stitch covers the center.

weaving



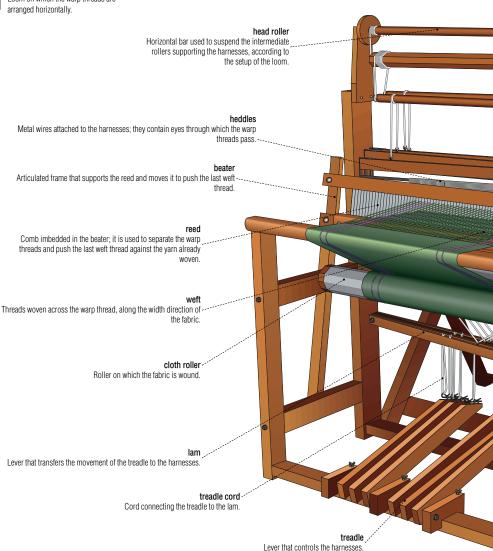


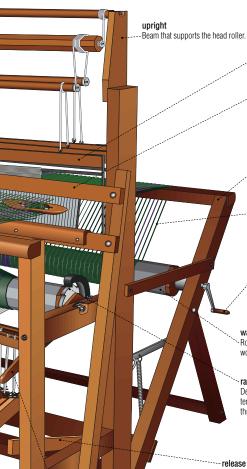
vertical frame

Wooden structure consisting of the loom's stationary parts.

low warp loom

Loom on which the warp threads are





harness

Adjustable wooden frame to which the heddles are attached; it raises the warp thread to create a space for the weft thread to pass through.

beater handtree

Upper crosspiece of the beater; it is used as a handle to move the

back beam

Crosspiece over which the warp threads turn to keep them horizontal.

warp

Evenly spaced parallel threads arranged lengthwise along the fabric.

handle

Part that controls the warp roller when the loom is set up.

warp roller

Roller on which the warp thread is wound.

ratchet wheel

Device used to control the winding tension of the fabric and the warp threads.

Part that controls the unwinding of the warp threads so they remain taut during weaving.

frame

Wooden structure consisting of the loom's stationary parts.

release treadle



take-up handle Lever that controls the cloth roller to maintain the fabric's winding tension.

shuttle

Weaving instrument that is pushed back and forth between two sections of warp thread to insert the weft threads.

rod Metal rod that supports the bobbin.

bobbin

Spool on which the weft thread is wound; it is placed on the shuttle.

eye Hole through which a weft thread unrolls.

flat shuttle

Wooden plate on which the weft thread is wound; it replaces the shuttle when the space between the layers of warp threads is too narrow.



temple

Instrument that maintains a constant fabric width during weaving.



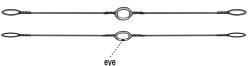


heddles

Metal wires that attach to the blade; they have an eye through which a warp thread passes.

reed hooks

Hook used to pass the warp thread through the tooth of a comb or the eye of a heddle.



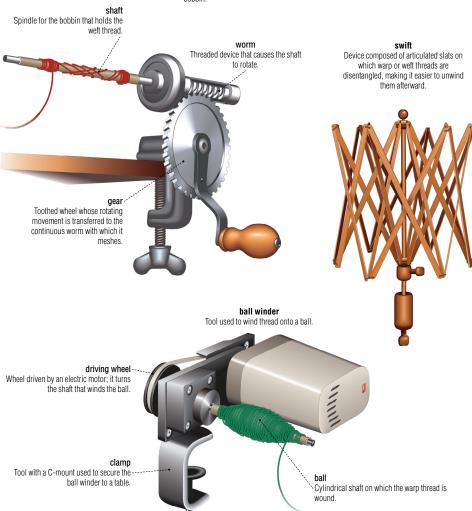
Hole through which a warp thread unwinds.

accessories

The tools used to facilitate various weaving processes.

bobbin winder

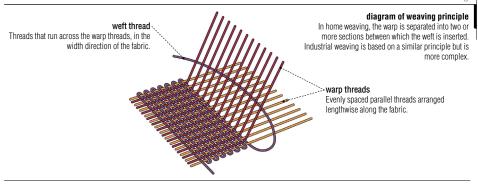
Device used to wind weft thread onto a bobbin.



warping frame
Device on which the warp threads are arranged in parallel hanks; this makes it easier to wind them onto the warp roller.



Piece of wood used to create leases.



hasic weaves

The principal types of weave.



satin weave

Widely spaced weave forming a smooth surface: here, the weft thread passes over four warp threads and then under one



Mesh forming oblique lines in the fabric: here, the weft thread passes over and then under two warp threads, and is staggered by one thread per row.



plain weave

Mesh forming a check pattern in the fabric; the weft thread passes over and under a warp thread, and is staggered by one thread per row.

other techniques



knot

Woolen yarn wound around two warp threads; its ends form the piles on a carpet.



slit

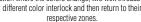
The space where the thread colors change; weft threads and warp threads interlock and then return to their respective zones.



Section where the colors change: two weft threads of a different color interlock and then return to their respective zones.



hatching Technique used to mix colors: a weft thread enters a different color zone, interlocks with a warp thread and comes back to the original color zone.



pottery

Art of creating objects from a clay paste, which is shaped by hand and cooked in an oven.

turning

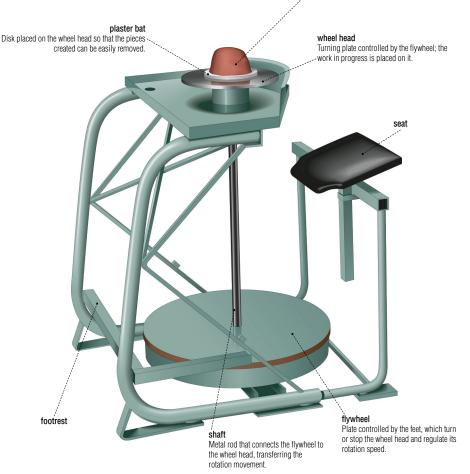
Process of using a turning wheel to shape clay by hand to create an object.

turning wheel

Mechanism used to give form to clay by means of a rotating movement operated by the feet.

ball of clay

Water-soaked clayey soil.







wooden modeling tools

Tools used to decorate and smooth clay.



Tool used to pierce clay and carve designs in it.



fettling knife

Tool used to cut and dig into clay.



Tool used to cut blocks of clay and remove finished pieces from the turning wheel.



trimming toolTool used to dig into clay and create designs in it.

stilt

Stand on which an object is placed during firing to evenly distribute the heat around it.



Small earthen pyramid with a known melting point; it is used to determine the temperature of the firing chamber.



....

Wooden, metal or plastic tool used to smooth the surface of an object during turning.



banding wheel

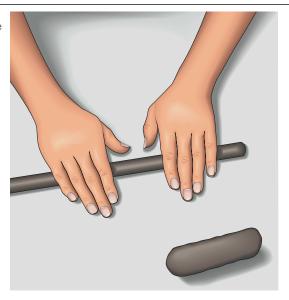
Hand-controlled turning plate used for processes that do not require continuous rotation speed, in particular for decorating a turned piece.



pottery

coiling

Process by which long rolls of clay are stacked and glued to create pieces without the use of a turning wheel.



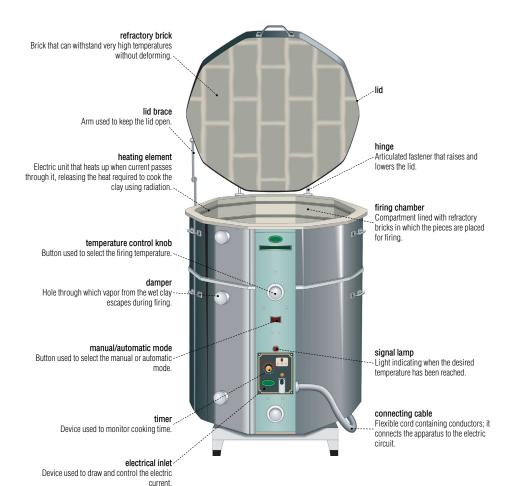
slab building Process by which clay is flattened with a roller, cut into slabs and then gathered together.



electric kiln

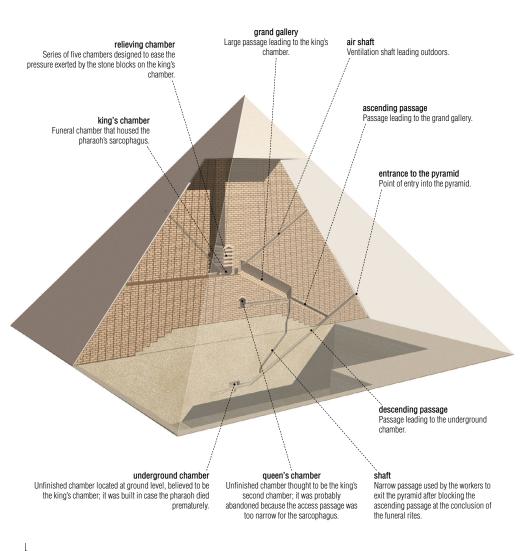
Apparatus that uses radiation to produce heat; it is used for firing clay.

Process by which clay is hardened by heating.

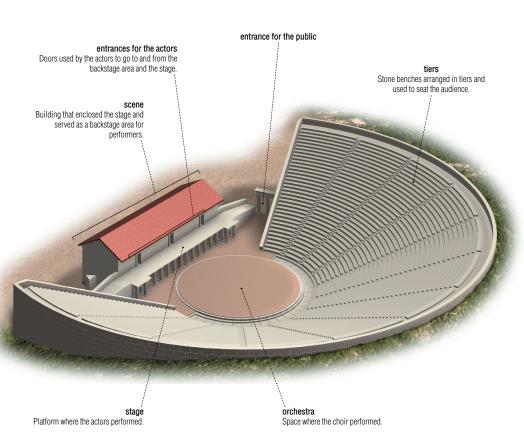


pyramid

Construction with a square base and four triangular faces; it served as a tomb for the pharaohs of ancient Egypt, represented here by the pyramid of Cheops.

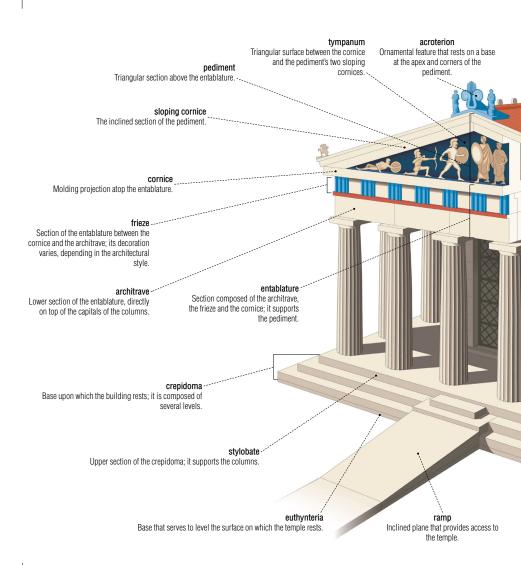


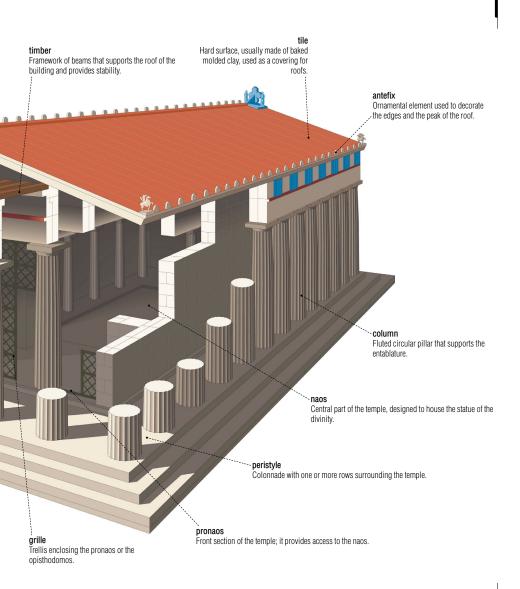
Open-air structure, often built on a hillside, where theatrical performances were staged during antiquity.



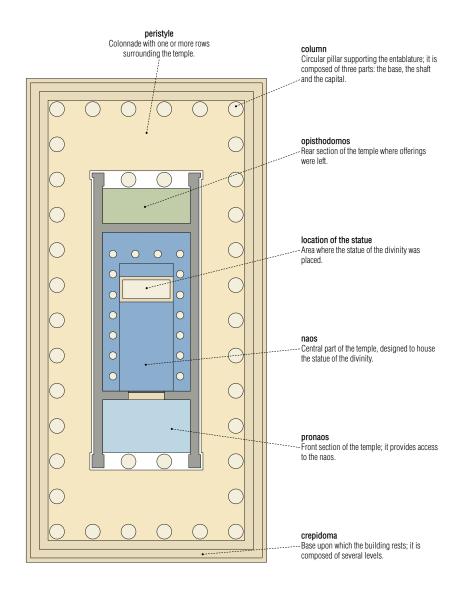
Greek temple

Building that, in antiquity, was dedicated to a divinity and featured a statue of that divinity.



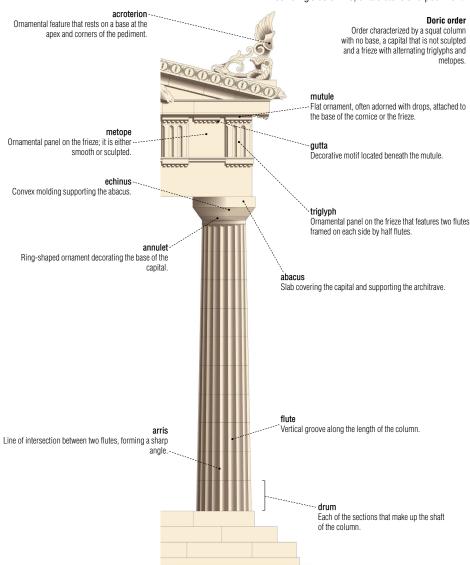


plan

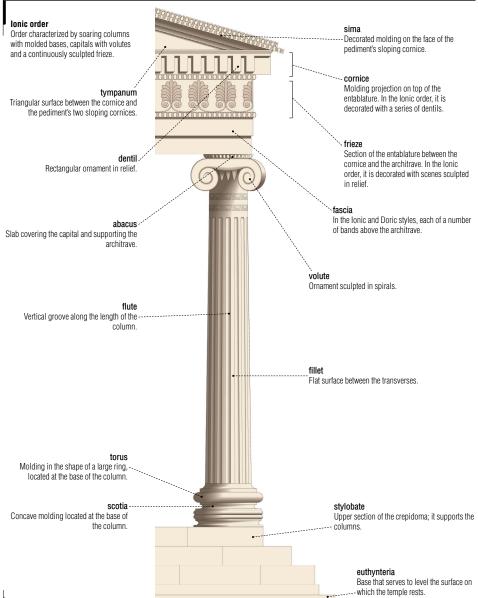


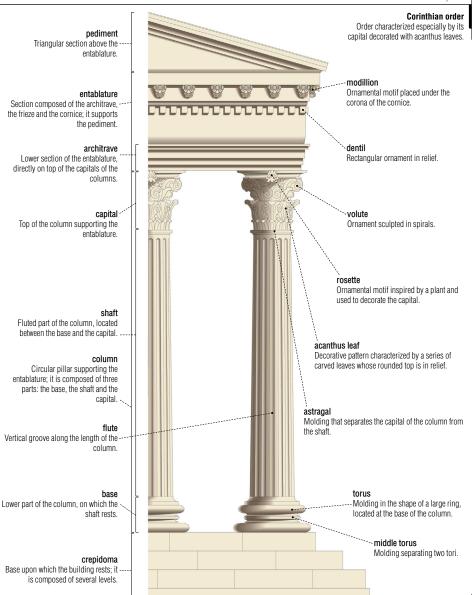
architectural styles

The architectural styles, or orders, of ancient Greece are distinguished by rules of proportion that govern a building's columns, entablature and pediment.



architectural styles

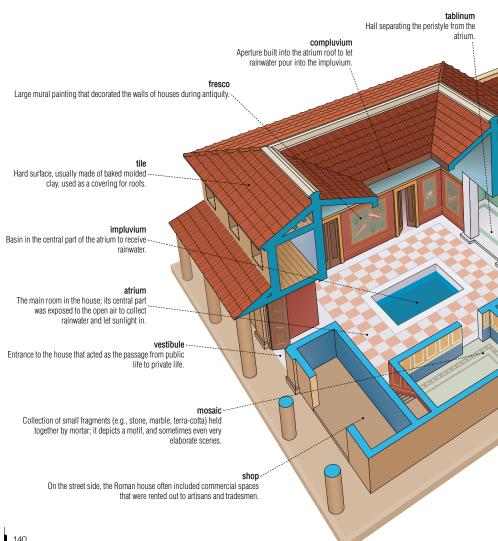


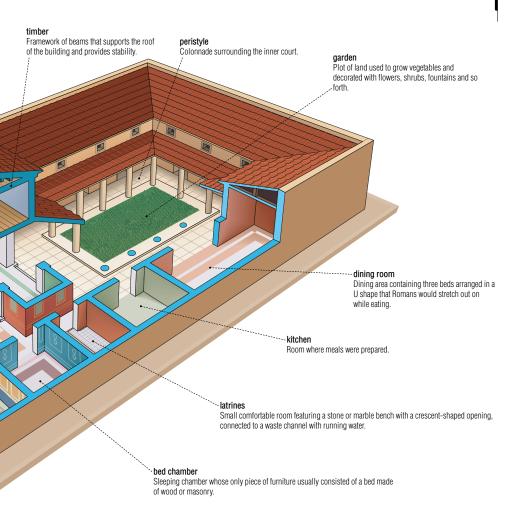


ARCHITECTURE

Roman house

For wealthy Romans, family life unfolded in spacious luxurious houses whose rooms were arranged around open-air spaces.

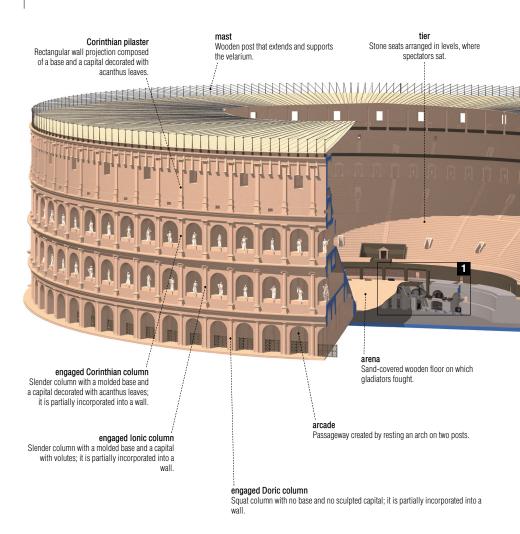




ARCHITECTURE

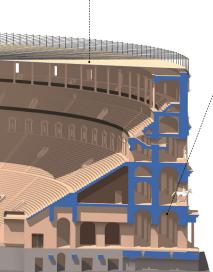
Roman amphitheater

Oval or round building composed of an arena surrounded by tiers; it was used mainly to stage gladiator fights.



velarium

Awning suspended over the tiers to protect spectators from the Sun and the rain.



barrel vault

Arched masonry construction resting on posts.

underground

Area located beneath the arena, designed for easy access for prisoners, gladiators and animals.

elevator

Device that used a counterweight system to raise the animals to arena level

cage

Barred cell used to lock up and transport animals.

trapdoor

Lift-up door through which gladiators and animals entered the arena.

arena

Sand-covered wooden floor on which gladiators fought. -

ramp

Sloping passage used to reach another level.

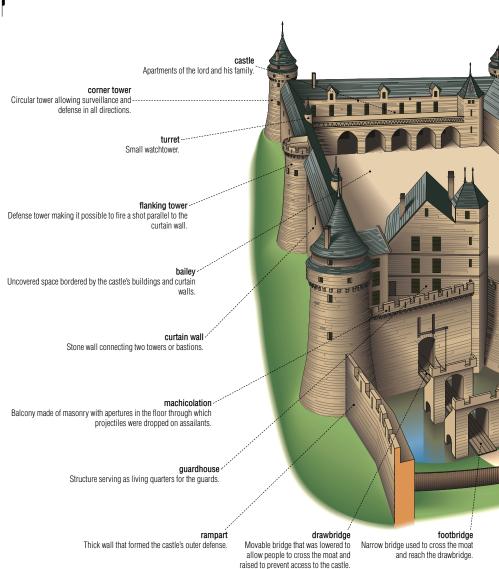
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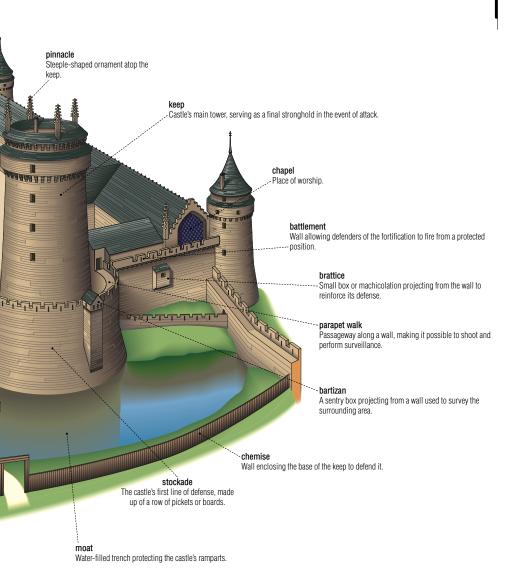
Barred room in which prisoners condemned to take part in the games were held.



castle

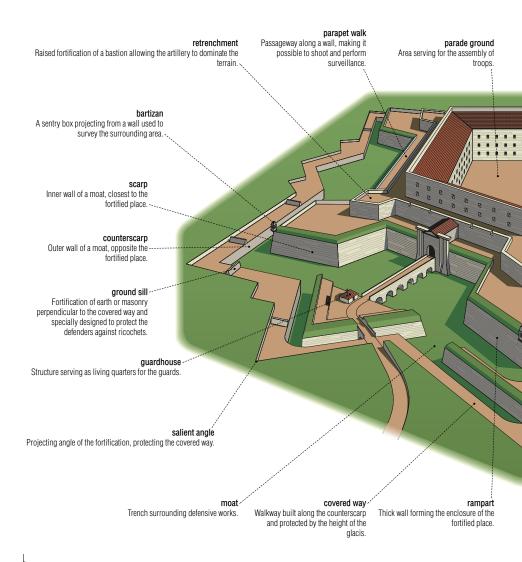
Fortified residence of a feudal lord, designed to protect against assailants.

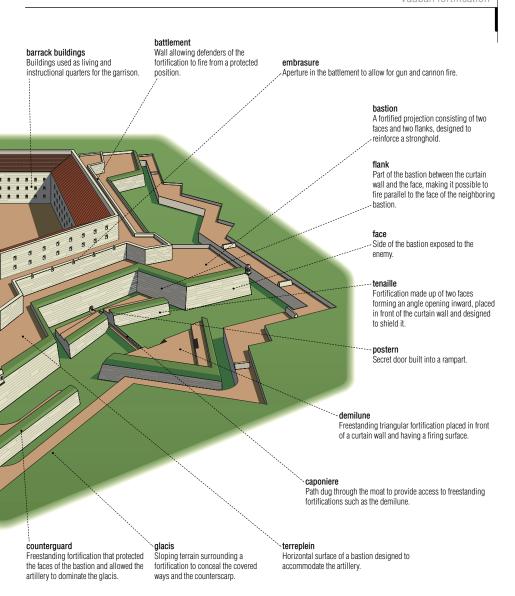


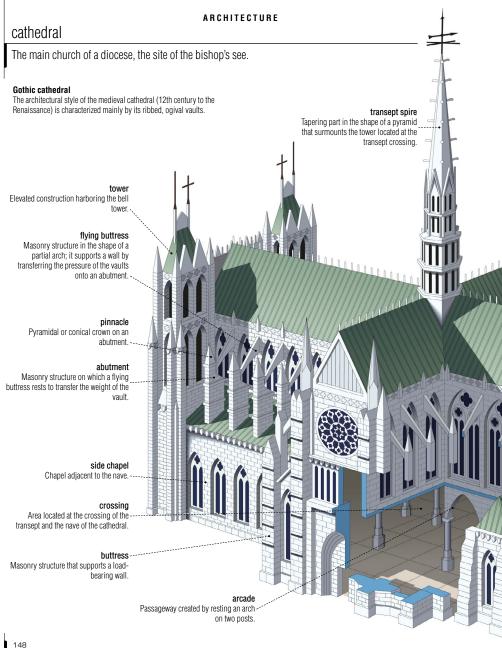


Vauban fortification

Star-shaped military fortification developed by the Frenchman Vauban in the 17th century.







vault

The vault of a Gothic cathedral rests on a series of arches that cross at the summit of the nave and are supported by lateral pillars.

keystone

Wedge-shaped stone above the nave where the arches meet; it supports the arches and stabilizes the overall structure. -

Rib connecting the top of the tierceron to the keystone.

traverse arch-

Arch that supports the vault and is perpendicular to the axis of the nave.

tierceron

Rib connected to a lierne but not to the keystone.

diagonal buttress

Arch connecting two of the vault's corners through the keystone; it is also called an ogive.

formeret

Arch that supports the vault and is parallel to the axis of the nave.

Lady chapel

Chapel located beyond the walls at the back of the cathedral, in the axis of the nave.

pillar

Column designed to support a masonry structure.

- Area just beyond the transept where the clergy stand during the liturgy.

apsidiole

Small lateral chapel arranged in a semicircle behind the choir surrounding the apse.





Tower with bays in which the bells are hung.

gallery

Covered passage along the cathedral's façade, decorated with statues.

spire

. Tapering part in the shape of a pyramid that surmounts the belfry.

belfry

Small steeplelike ornament in the shape of a pyramid; it is found on the corners of the transept or on each side of the façade.

gable

Triangular decorative element with molded edges, located above the portal.

trefoil

Ornamental motif comprised of three lobes.

order

Each of the receding arches that form a vault over a portal.

.-- linte

Horizontal section of the door frame that fills the opening above a door or portal.

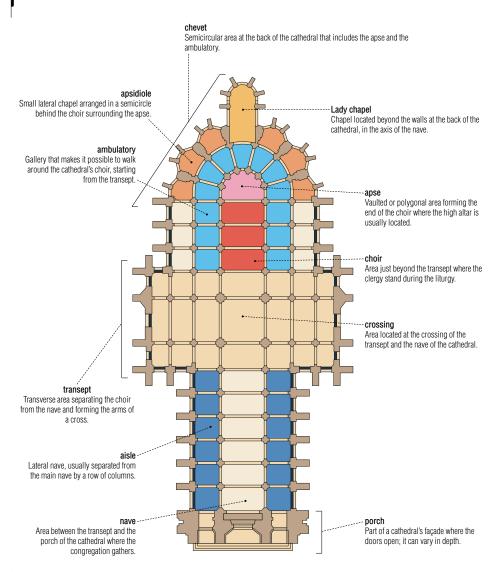
pier

Masonry pillar supporting the orders.

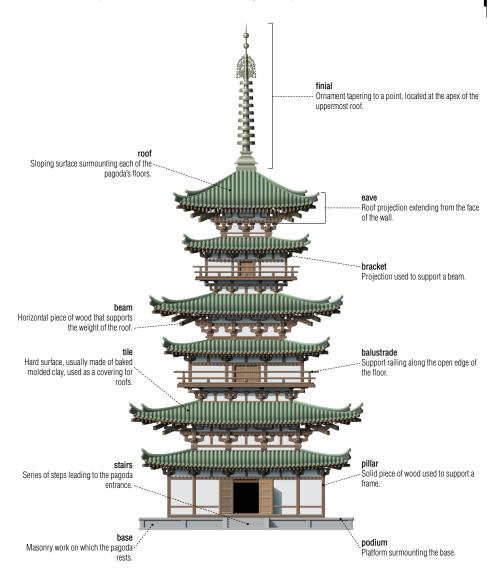
splay

Recessed side of the portal that widens from its -- inside to its outside edge.

plan



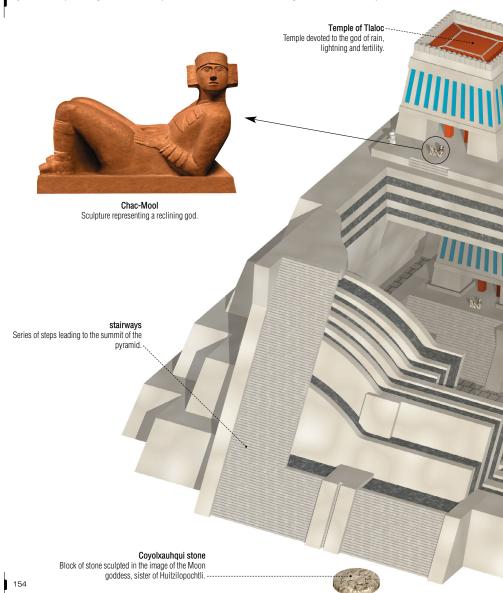
Place of worship for Buddhists of the Far East, usually made up of a series of stories, each with its own roof.

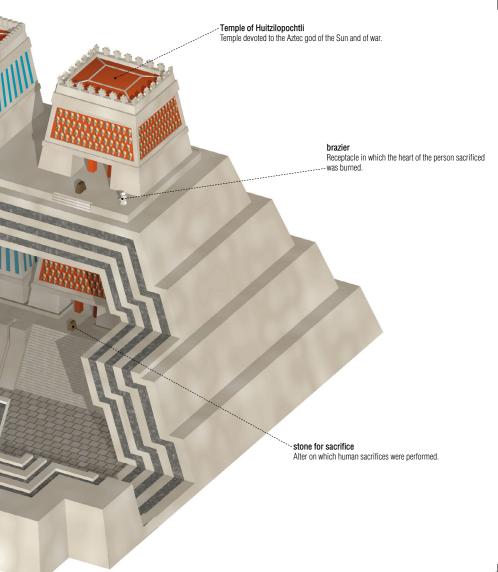


ARCHITECTURE

Aztec temple

Pyramid-shaped religious edifice of pre-Columbian Mexico featuring one or several temples.



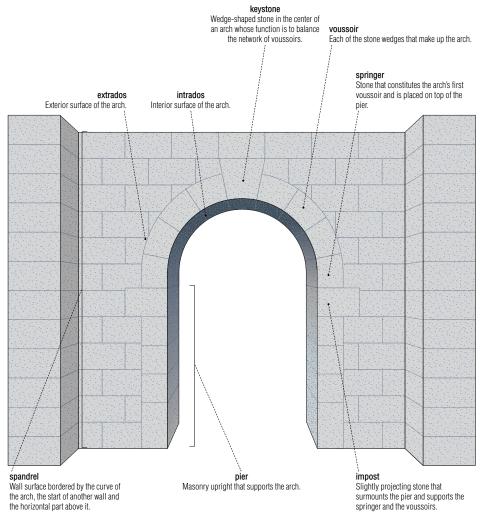


elements of architecture

Collective term for the components used in the construction of buildings.

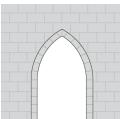
semicircular arch

Arch in the form of a semicircle.



examples of arches

Arches: curved constructions supported on each side by piers.



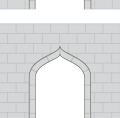
equilateral

Arch forming an acute angle that is characteristic of the Gothic vault.



lancet

Equilateral arch whose span, or distance between the piers, is reduced.



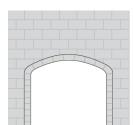
naee

Arch comprised of two symmetrical curves that are alternately convex and concave.



horseshoe

Arch whose extremities extend beyond a semicircle; it is characteristic of Arab architecture.



basket handle

Arch that is lower than it is wide and forms an ellipse.



Tude

Flattened equilateral arch that is characteristic of the style that flourished in 16th-century England.



stilted

Arch that takes the form of a semicircle but is higher than the semicircular arch.



trefoil

Arch with three lobes.

ARCHITECTURE

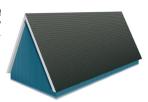
elements of architecture

examples of roofs

Roof: the covering of a building that rests on the frame and protects it from inclement weather.

gable roof

Sloping roof whose peak angle is very sharp.



pitched roof

Roof with two inclined sides whose peak angle varies.

lean-to roof

Roof with one side only, usually covering a building that is supported by a higher building.



hip roof

Roof composed of two triangular sides (hips) and two trapezoid sides.



flat roof

Roof whose level surface slopes slightly allowing water to run off.

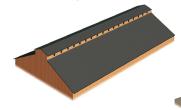


ogee roof

Two-sided roof that resembles the hull of an overturned ship.

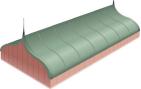


Sloping roof whose raised summit contains windows that let in light and ventilate the loft.



sawtooth roof

Roof composed of a series of small roofs with two asymmetrical sides, the steepest of which often contains a window.



mansart roof

Four-sided roof whose slope is gentle at the summit and steep at the base.



imperial roof

Roof with curved sides that resembles a crown.





helm roof Pyramidal or conical roof that usually surmounts a tower or bell tower.



Many-sided roof whose slope is steep at the summit and gentle at the base.



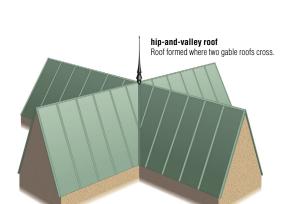
hell roof Roof covering the hollow semicircular vault of a building (dome).



conical broach roof Conical roof usually surmounting a turret.



rotunda roof Roof with several triangular sides on a polygonal base.





dome roof Roof covering a large dome that sometimes rises above the rest of the roof.

ARCHITECTURE

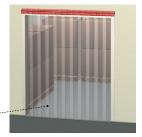
elements of architecture

examples of doors

Doors: composed of a movable part, the wing, and a frame; their function is to close up a bay.

str

Each of the flexible plastic bands that overlap to close the bay and move apart to allow a person through.



strip door

Door comprised of strips of flexible plastic; it allows easy movement between two rooms.



conventional door

Door made up of a wing that opens and closes by pivoting on hinges.



folding door

Sliding door whose wing is composed of two articulated panels that fold together when opened.



sliding folding door

Sliding door whose wing is composed of articulated panels that fold together when opened.



sliding door

Panel or panels of a door sliding horizontally along a set of tracks.



fire door

Fireproof door that delays the spread of flames and smoke during a fire.



sectional garage door

Door whose wing is composed of articulated horizontal panels that slide along rails into the roof of the garage.



up and over garage door

Door made up of a wing that slides toward the ceiling of the garage.

manual revolving door

Rotating door comprised of three or four plateglass wings that, when pushed, pivot around a vertical axis in the manner of a turnstile.



canopy

Metal ring forming the upper part of the enclosure, where the guide rail for the wings is located.

wina

One of the vertical sections of the revolving door.

push bar

Horizontal part that is pushed to move the revolving door.

enclosure ·

Intermediary space between two rooms or a room and the outside, where the door is placed.

compartment

Part bordered by two wings where one or more people enter and push the door to make it rotate.

automatic sliding door

Door activated by a motion detector that causes the wings to slide along a rail.



-motion detector

Device that detects the presence of a person and is set to open and close the wings.

-wing

The part of the door that moves.

elements of architecture

examples of windows

Windows: bays built into a wall and containing glass to let in light and air.



French window
Window with two sashes that open in, pivoting vertically along a hanging stile.



casement window
Window with one or two sashes that open
out, pivoting vertically along a hanging
stile.



sliding folding window Sliding window whose sash is composed of a series of articulated panels that fold together when opened.



louvered windowWindow whose glass louvers rotate along a horizontal



sliding windowWindow with one or more sashes that move horizontally along a groove.



sash windowWindow with one or more overlapping sashes that slide open vertically.

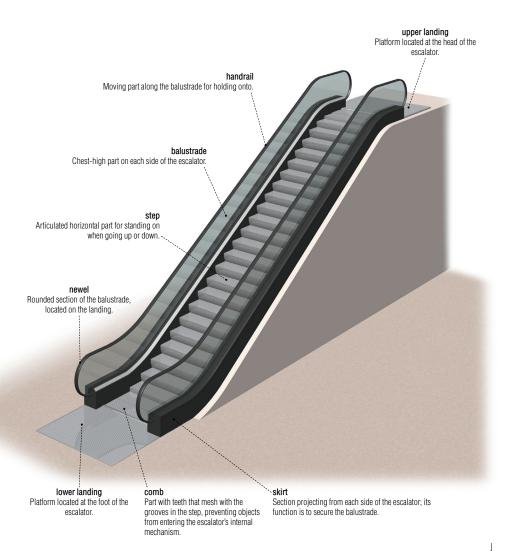


horizontal pivoting window
Window whose sash rotates along a horizontal axis
located at its midpoint.



vertical pivoting window Window whose sash rotates along a vertical axis located at its midpoint.

Installation that consists of articulated steps on a continuously turning chain; it allows movement between two levels of a building.



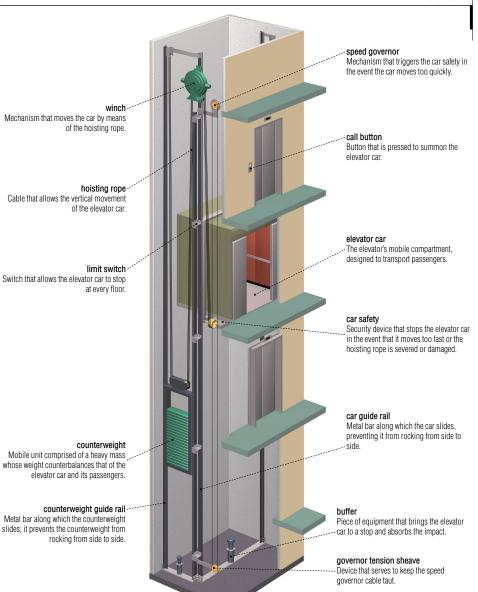
elevator

Mechanical apparatus with a car that provides automated movement of people between the levels of a building.

elevator car

The elevator's mobile compartment, designed to transport passengers.





ARCHITECTURE

traditional houses

The dwellings, current or of former times, that characterize a given culture.



ialoo Dome-shaped Inuit dwelling made of blocks of snow or ice.



yurt Portable dwelling of the nomadic peoples of central and northern Asia composed of a wooden frame covered with felt.



hut Rudimentary dwelling made from tree branches and straw.



hut Dwelling of African countries, usually made of straw and clay and covered with a straw roof.



isba Dwelling of various countries in northern Europe, especially Russia, made of the wood of the fir tree.



Round or oval dwelling of North American Indians made of poles covered with bark, matting and skins.



pile dwelling Dwelling built over water or wet land and supported by posts.



adobe house

dried straw.

Dwellings typical of countries in Latin

America made of clay bricks and sun-



beam

Conical dwelling of the Indians of the

covered with skins.



Dwelling types found in large urban centers.



one-storey house

Single-family dwelling that contains only one level, the first floor.





town houses

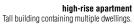
Houses of the same height built in more or less the same style and separated by party walls.





condominiums

Group of lodgings belonging to separate owners who share the building's maintenance costs.





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