Woodcut

Woodcut is a <u>relief printing</u> technique in <u>printmaking</u>. An artist carves an image into the surface of a block of <u>wood</u>—typically with <u>gouges</u>—leaving the printing parts level with the surface while removing the non-printing parts. Areas that the artist cuts away carry no ink, while characters or images at surface level carry the ink to produce the print. The block is cut along the <u>wood grain</u> (unlike <u>wood engraving</u>, where the block is cut in the end-grain). The surface is covered with ink by rolling over the surface with an ink-covered roller (<u>brayer</u>), leaving ink upon the flat surface but not in the non-printing areas.

Multiple colors can be printed by keying the paper to a frame around the woodblocks (using a different block for each color). The art of carving the woodcut can be called "xylography", but this is rarely used in English for images alone, although that and "xylographic" are used in connection with <u>block books</u>, which are small books containing text and images in the same block. They became popular in Europe during the latter half of the 15th century. A **single-leaf woodcut** is a woodcut presented as a single image or print, as opposed to a book illustration.

Contents

Division of labour Methods of printing History White-line woodcut Japonism Colour Gallery of Asian woodcuts Chiaroscuro woodcuts Famous works in woodcut Artists See also Notes References External links

Division of labour

In both Europe and the Far East, traditionally the artist only designed the woodcut, and the block-carving was left to specialist craftsmen, called block-cutters, or *Formschneider* in Germany, some of whom became well-known in their own right. Among these, the best-known are the 16th-century <u>Hieronymus Andreae</u> (who also used "Formschneider" as his surname), <u>Hans Lützelburger</u> and <u>Jost de Negker</u>, all of whom ran workshops and also operated as printers and publishers. The *formschneider* in turn handed the block on to specialist printers. There were further specialists who made the blank blocks.

This is why woodcuts are sometimes described by museums or books as "designed by" rather than "by" an artist; but most authorities do not use this distinction. The division of labour had the advantage that a trained artist could adapt to the medium relatively easily, without needing to learn the use of <u>woodworking</u> tools.

There were various methods of transferring the artist's drawn design onto the block for the cutter to follow. Either the drawing would be made directly onto the block (often whitened first), or a <u>drawing</u> on paper was glued to the block. Either way, the artist's drawing was destroyed during the cutting process. Other methods were used, including tracing.

In both Europe and the Far East in the early 20th century, some artists began to do the whole process themselves. In Japan, this movement was called <u>sōsaku-hanga</u> (創作版画 creative prints), as opposed to <u>shin-hanga</u> (新版画 new prints), a movement that retained traditional methods. In the West, many artists used the easier technique of linocut instead.

Methods of printing

Compared to <u>intaglio</u> techniques like <u>etching</u> and <u>engraving</u>, only low pressure is required to print. As a relief method, it is only necessary to ink the block and bring it into firm and even contact with the paper or cloth to achieve an acceptable print. In Europe, a variety of woods including <u>boxwood</u> and several nut and fruit woods like <u>pear</u> or <u>cherry</u> were commonly used;^[1] in Japan, the wood of the cherry species



The Four Horsemen c. 1496-1498 by Albrecht Dürer, depicting the Four Horsemen of the Apocalypse



Block Cutter at Work woodcut by Jost Amman, 1568

There are three methods of printing to consider:



The Crab that played with the sea, Woodcut by Rudyard Kipling illustrating one of his *Just So Stories* (1902). In mixed white-line (below) and normal woodcut (above).

- Stamping: Used for many fabrics and most early European woodcuts (1400–40). These were printed by putting
 the paper/fabric on a table or other flat surface with the block on top, and pressing or hammering the back of
 the block.
- Rubbing: Apparently the most common method for Far Eastern printing on paper at all times. Used for European woodcuts and block-books later in the fifteenth century, and very widely for cloth. Also used for many Western woodcuts from about 1910 to the present. The block goes face up on a table, with the paper or fabric on top. The back is rubbed with a "hard pad, a flat piece of wood, a burnisher, or a leather frotton".^[2] A traditional Japanese tool used for this is called a *baren*. Later in Japan, complex wooden mechanisms were used to help hold the woodblock perfectly still and to apply proper pressure in the printing process. This was especially helpful once multiple colors were introduced and had to be applied with precision atop previous ink layers.
- Printing in a press: presses only seem to have been used in Asia in relatively recent times. Printing-presses were used from about 1480 for European prints and block-books, and before that for woodcut book illustrations. Simple weighted presses may have been used in Europe before the print-press, but firm evidence is lacking. A deceased Abbess of Mechelen in 1465 had "*unum instrumentum ad imprintendum scripturas et ymagines ... cum 14 aliis lapideis printis*"—"an instrument for printing texts and pictures ... with 14 stones for printing". This is probably too early to be a <u>Gutenberg</u>-type printing press in that location.^[2]

History

Main articles Old master print for Europe, Woodblock printing in Japan for Japan, and Lubok for Russia

Woodcut originated in China in antiquity as a method of printing on textiles and later on paper. The earliest woodblock printed fragments to survive are from China, from the <u>Han dynasty</u> (before 220), and are of silk printed with flowers in three colours.^[3] "In the 13th century the Chinese technique of blockprinting

was transmitted to Europe."^[4] <u>Paper</u> arrived in Europe, also from China via <u>al-Andalus</u>, slightly later, and was being manufactured in Italy by the end of the thirteenth century, and in Burgundy and Germany by the end of the fourteenth.

In Europe, woodcut is the oldest technique used for <u>old master prints</u>, developing about 1400, by using, on paper, existing techniques for printing. One of the more ancient woodcuts on paper that can be seen today is *The Fire Madonna (Madonna del Fuoco*, in the Italian language), in the Cathedral of Forlì, in Italy.

The explosion of sales of cheap woodcuts in the middle of the century led to a fall in standards, and many popular prints were very crude. The development of <u>hatching</u> followed on rather later than <u>engraving</u>. <u>Michael</u> <u>Wolgemut</u> was significant in making German woodcuts more sophisticated from about 1475, and <u>Erhard</u> <u>Reuwich</u> was the first to use cross-hatching (far harder to do than engraving or <u>etching</u>). Both of these produced mainly book-illustrations, as did various Italian artists who were also raising standards there at the same period. At the end of the century <u>Albrecht Dürer</u> brought the Western woodcut to a level that, arguably, has never been surpassed, and greatly increased the status of the "single-leaf" woodcut (i.e. an image sold separately).

As woodcut can be easily printed together with <u>movable type</u>, because both are relief-printed, it was the main medium for book illustrations until the late sixteenth century. The first woodcut book illustration dates to about 1461, only a few years after the beginning of printing with movable type, printed by Albrecht Pfister in <u>Bamberg</u>. Woodcut was used less often for individual ("single-leaf") fine-art prints from about 1550 until the late nineteenth century, when interest revived. It remained important for popular prints until the nineteenth century in most of Europe, and later in some places.

The art reached a high level of technical and artistic development in <u>East Asia</u> and <u>Iran</u>. <u>Woodblock printing in</u> <u>Japan</u> is called *moku-hanga* and was introduced in the seventeenth century for both books and art. The popular "floating world" genre of <u>ukiyo-e</u> originated in the second half of the seventeenth century, with prints in <u>monochrome</u> or two colours. Sometimes these were hand-coloured after printing. Later, prints with many colours were developed. Japanese woodcut became a major artistic form, although at the time it was accorded a much lower status than painting. It continued to develop through to the twentieth century.

Madonna del Fuoco (Madonna of the Fire, c. 1425), Cathedral of Forlì, in Italy



A less sophisticated woodcut book illustration of the *Hortus Sanitatis* lapidary, Venice, Bernardino Benaglio e Giovanni de Cereto (1511)

White-line woodcut

This technique just carves the image in mostly thin lines, not unlike a rather crude engraving. The block is printed in the normal way, so that most of the print is black with the image created by white lines. This process was invented by the sixteenth-century <u>Swiss</u> artist <u>Urs Graf</u>, but became most popular in the nineteenth and twentieth century, often in a modified form where images used large areas of white-line contrasted with areas in the normal black-line style. This was pioneered by <u>Félix Vallotton</u>.

Japonism

In the 1860s, just as the Japanese themselves were becoming aware of Western art in general, Japanese prints began to reach Europe in considerable numbers, and became very fashionable, especially in France. They had a great influence on many artists, notably Édouard Manet, Pierre Bonnard, Henri de Toulouse-Lautrec, Edgar Degas, Paul Gauguin, Vincent van Gogh, Félix Vallotton and Mary Cassatt. In 1872, Jules Claretie dubbed the trend "Le Japonisme".^[5]

Though the Japanese influence was reflected in many artistic media, including painting, it did lead to a revival of the woodcut in Europe, which had been in danger of extinction as a serious art medium. Most of the artists above, except for Félix Vallotton and Paul Gauguin, in fact used <u>lithography</u>, especially for coloured prints. See below for Japanese influence in illustrations for children's books.

Artists, notably <u>Edvard Munch</u> and <u>Franz Masereel</u>, continued to use the medium, which in <u>Modernism</u> came to appeal because it was relatively easy to complete the whole process, including printing, in a studio with little special equipment. The German <u>Expressionists</u> used woodcut a good deal.

Colour

Coloured woodcuts first appeared in ancient China. The oldest known are three Buddhist images dating to the 10th century. European woodcut prints with coloured blocks were invented in Germany in 1508, and are known as <u>chiaroscuro</u> woodcuts (see below). However, colour did not become the norm, as it did in Japan in the *ukiyo-e* and other forms.

In Europe and Japan, colour woodcuts were normally only used for prints rather than book illustrations. In China, where the individual print did not develop until the nineteenth century, the reverse is true, and early colour woodcuts mostly occur in luxury books about art, especially the more prestigious medium of painting. The first known example is a book on ink-cakes printed in 1606, and colour technique reached its height in books on painting published in the seventeenth century. Notable examples are <u>Hu Zhengyan's Treatise on the Paintings and Writings of the Ten Bamboo Studio</u> of 1633,^[6] and the *Mustard Seed Garden Painting Manual* published in 1679 and 1701.^[7]



Odawara-juku in the 1830s by Hiroshige, from his series *The Fifty-Three Stations of the Tōkaidō*



Bijin (beautiful woman) ukiyo-e by Keisai Eisen, before 1848

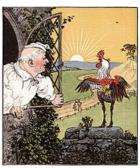
In Japan colour technique, called $\underline{\text{mishiki-e}}$ in its fully developed form,

spread more widely, and was used for prints, from the 1760s on. Text was nearly always monochrome, as were images in books, but the growth of the popularity of *ukiyo-e* brought with it demand for ever-increasing numbers of colors and complexity of techniques. By the nineteenth century most artists worked in colour. The stages of this development were:

- Sumizuri-e (墨摺り絵, "ink printed pictures") monochrome printing using only black ink
- <u>Benizuri-e</u> (紅摺り絵, "crimson printed pictures") red ink details or highlights added by hand after the printing process; green was sometimes used as well
- Tan-e (丹絵) orange highlights using a red pigment called tan
- <u>Aizuri-e</u> (藍摺り絵, "indigo printed pictures"), <u>Murasaki-e</u> (紫絵, "purple pictures"), and other styles that used a single color in addition to, or instead of, black ink
- <u>Urushi-e</u> (漆絵) a method that used glue to thicken the ink, emboldening the image; gold, mica and other substances were often used to enhance the image further. *Urushi-e* can also refer to paintings using <u>lacquer</u> instead of paint; <u>lacquer</u> was very rarely if ever used on prints.
- <u>Nishiki-e</u> (錦絵, "brocade pictures") a method that used multiple blocks for separate portions of the image, so a number of colors could achieve incredibly complex and detailed images; a separate block was carved to apply only to the portion of the image designated for a single color. Registration marks called *kentō* (見当) ensured correspondence between the application of each block.

A number of different methods of colour printing using woodcut (technically <u>Chromoxylography</u>) were developed in Europe in the 19th century. In 1835, <u>George Baxter</u> patented a method using an <u>intaglio</u> line plate (or occasionally a <u>lithograph</u>), printed in black or a dark colour, and then overprinted with up to twenty different colours from woodblocks. <u>Edmund Evans</u> used relief and wood throughout, with up to eleven different colours, and latterly specialized in illustrations for children's books, using fewer blocks but overprinting non-solid areas of colour to achieve blended colours. Artists such as <u>Randolph Caldecott</u>, <u>Walter Crane</u> and <u>Kate Greenaway</u> were influenced by the Japanese prints now available and <u>fashionable</u> in Europe to create a suitable style, with flat areas of colour.

In the 20th century, <u>Ernst Ludwig Kirchner</u> of the <u>Die Brücke</u> group developed a process of producing colored woodcut prints using a single block applying different colors to the block with a brush à *la poupée* and then printing (halfway between a woodcut and a <u>monotype</u>).^[8] A remarkable example of this technique is the 1915 *Portrait of <u>Otto Müller</u>* woodcut print from the collection of the <u>British Museum</u>.^[9]



Children's book illustration by Randolph Caldecott; engraving and printing by Edmund Evans, 1887



Using a handheld gouge to cut a "white-line" woodcut design into Japanese plywood. The design has been sketched in chalk on a painted face of the plywood.

Gallery of Asian woodcuts



Coloured woodcut of

10th century, China.

Gautama

Buddha.



century,

China.

Sichuan,

IV

1794.



as

Sadanoshin, Japanese

woodcut by Sharaku,

Takemura



Jiaozi (currency), 10th Actor Ichikawa Ebizō Dragon, Japanese woodcut by Yoshida Gen'ō, 1892.



Ernst Ludwig Kirchner, Portrait of Otto Müller (1915)



Modern woodcut Carp Painting, Đông Hồ painting, Vietnam.

Chiaroscuro woodcuts

Chiaroscuro woodcuts are old master prints in woodcut using two or more blocks printed in different colours; they do not necessarily feature strong contrasts of light and dark. They were first produced to achieve similar effects to chiaroscuro drawings. After some early experiments in book-printing, the true chiaroscuro woodcut conceived for two blocks was probably first invented by Lucas Cranach the Elder in Germany in 1508 or 1509, though he backdated some of his first prints and added tone blocks to some prints first produced for monochrome printing, swiftly followed by Hans Burgkmair.^[10] Despite Giorgio Vasari's claim for Italian precedence in Ugo da Carpi, it is clear that his, the first Italian examples, date to around 1516^{[11][12]}



Chiaroscuro woodcut depicting Playing cupids by anonymous 16th-century Italian artist

Other printmakers to use the technique include Hans Baldung and Parmigianino. In the German states the technique was in use largely during the first decades of the sixteenth century, but Italians continued to use it throughout the century, and later artists like Hendrik Goltzius sometimes made use

of it. In the German style, one block usually had only lines and is called the "line block", whilst the other block or blocks had flat areas of colour and are called "tone blocks". The Italians usually used only tone blocks, for a very different effect, much closer to the chiaroscuro drawings the term was originally used for, or to watercolor paintings.^[13]

The Swedish printmaker Torsten Billman (1909-1989) developed during the 1930s and 1940s a variant chiaroscuro technique with several gray tones from ordinary printing ink. The art historian Gunnar Jungmarker (1902-1983) at Stockholm's Nationalmuseum called this technique "grisaille woodcut". It is a time-consuming printing process, exclusively for hand printing, with several grey-wood blocks aside from the black-and-white key block.^[14]

Famous works in woodcut

Europe

- Ars moriendi
- Dürer's Rhinoceros
- Emblem book
- Four Horsemen of the Apocalypse
- Hypnerotomachia Poliphili
- Just So Stories
- Lubok prints

Japan

- Thirty-six Views of Mount Fuji
- The Dream of the Fisherman's Wife
- Ukiyo-e

Artists

- Irving Amen
- Mary Azarian
- Aubrey Beardsley
- Hans Baldung
- Leonard Baskin
- Gustave Baumann
- Torsten Billman
- Carroll Thayer Berry
- Emma Bormann
- Erich Buchholz
- Hans Burgkmair
- Domenico Campagnola
- Ugo da Carpi
- Billy Childish
- Salvador Dalí
- Gustave Doré
- Albrecht Dürer
- M. C. Escher
- James Flora
- Antonio Frasconi
- Robert Gibbings
- Vincent van Gogh
- Urs Graf
- Suzuki Harunobu
- Hiroshige
- Jacques Hnizdovsky
- Hokusai
- Tom Huck
- Stephen Huneck
- Alfred Garth Jones
- Hussein el gebalyErnst Ludwig Kirchner
- Gaga Kovenchuk
- Gaga Kovenchi
 Käthe Kollwitz
- J.J. Lankes
- Frans Masereel
- Hishikawa Moronobu
- Edvard Munch
- Emil Nolde
- Giovanni Battista Palumba (Master I.B. with a Bird)
- Jacob Pins
- J. G. Posada
- Endi E. Poskovic
- Hannah Tompkins
- Henriette Tirman
- Clément Serveau
- Paul Signac
- Eric Slater
- Utamaro
- Marcelo Soares
- Félix Vallotton
- Karel Vik
- Leopold Wächtler
- Susan Dorothea White

See also

- Blockbooks
- Chiaroscuro
- Cordel literature
- Linocut
- Metalcut
- Old master print
- Printmaking
- Rubber stamp
- Shin hanga
- Sōsaku hanga
- Wood carving
- Woodblock printing

Ukiyo-e

Notes

- 1. Landau & Parshall, 21-22; Uglow, 2006. p. xiii.
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- 9. "Portrait of Otto Müller (1983,0416.3)" (https://www.britishmuseum.org/research_search_the_collection_data base/search_object_details.aspx?objectid=698272&partid=1&ldNum=1983,0416.3&orig=/research/search_ the_collection_database/museum_no_provenance_search.aspx). British Museum Collection Database. London: British Museum. Retrieved 2010-06-05.
- so Landau and Parshall, 179-192; but Bartrum, 179 and *Renaissance Impressions: Chiaroscuro Woodcuts from the Collections of Georg Baselitz and the Albertina, Vienna, Royal Academy*, London, March-June 2014, exhibition guide, both credit Cranach with the innovation in 1507.
- 11. Landau and Parshall, 150
- 12. <u>"Ugo da Carpi after Parmigianino: Diogenes (17.50.1) | Heilbrunn Timeline of Art History | The Metropolitan</u> <u>Museum of Art" (http://www.metmuseum.org/toah/hd/wdct/ho_17.50.1.htm)</u>. *Metmuseum.org*. 2012-02-03. Retrieved 2012-02-18.
- 13. Landau and Parshall, The Renaissance Print, pp. 179-202; 273-81 & passim; Yale, 1996, ISBN 0-300-06883-2
- 14. Sjöberg, Leif, *Torsten Billman and the Wood Engraver's Art*, pp. 165-171. The American Scandinavian Review, Vol. LXI, No. 2, June 1973. New York 1973.



The Prophet, woodcut by Emil Nolde, 1912, various collections

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- Lankes, JJ (1932). A Woodcut Manual. H. Holt.
- David Landau & Peter Parshall, The Renaissance Print, Yale, 1996, ISBN 0-300-06883-2
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External links

- Ukiyo-e from the Metropolitan Museum of Art Timeline of Art History (http://www.metmuseum.org/toah/hd/ukiy/hd_ukiy.htm)
- Woodcut in Europe from the Metropolitan Museum of Art Timeline of Art History (http://www.metmuseum.org/toah/hd/wdct/hd wdct.htm)
- Italian Renaissance Woodcut Book Illustration from the Metropolitan Museum of Art Timeline of Art History (http://www.metmuseum.org/toa h/hd/wifb/hd_wifb.htm)
- Prints & People: A Social History of Printed Pictures (http://libmma.contentdm.oclc.org/cdm/compoundobject/collection/p15324coll10/id/943 03/rec/1), an exhibition catalog from The Metropolitan Museum of Art (fully available online as PDF), which contains material on woodcuts
- <u>Museum of Modern Art information on printing techniques and examples of prints. (http://www.moma.org/exhibitions/2001/whatisaprint/flas h.html)</u>
- Woodcut in early printed books (https://www.loc.gov/exhibits/heavenlycraft/heavenly-15th.html) (online exhibition from the Library of Congress)
- A collection of woodcuts images can be found at the University of Houston Digital Library (http://digital.lib.uh.edu/cdm4/results.php?CISOB OX3=woodcut&CISOFIELD1=CISOSEARCHALL&CISOFIELD2=CISOSEARCHALL&CISOFIELD3=CISOSEARCHALL&CISOFIELD4=CISOSEARCHALL& &CISOROOT=all&CISOOP1=all&CISOOP2=exact&CISOOP3=any&CISOOP4=none)
- *Meditations, or the Contemplations of the Most Devout (http://www.wdl.org/en/item/11359/)* is a 15th-century publication that is considered the first Italian illustrated book, using early woodcut techniques.

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