

Eyewitness VIKING







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from Denmark

Written by SUSAN M. MARGESON

Photographed by PETER ANDERSON



Belt mount from the Volga region in Russia

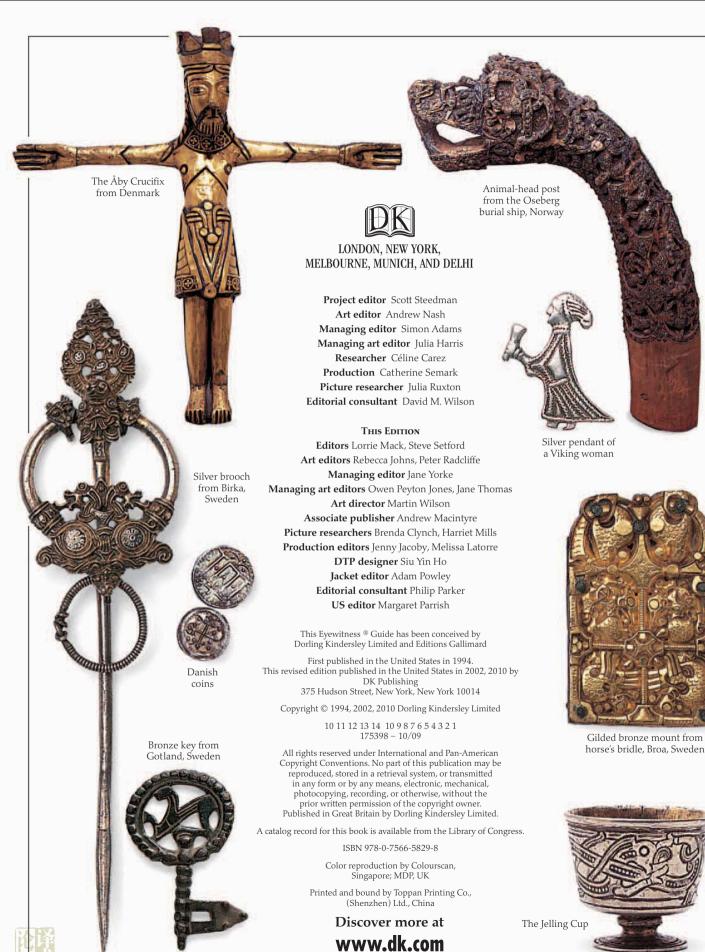




Thor's hammer

Norwegian Urnes-style brooch

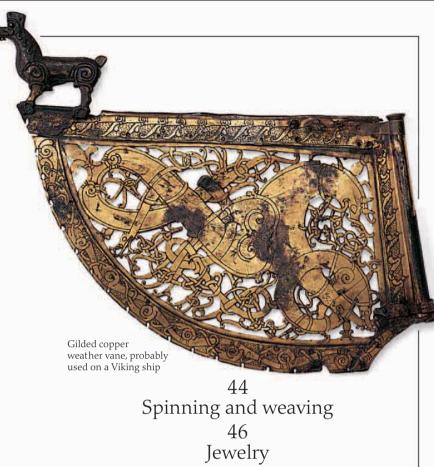




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ROMANTIC VIKINGS There are many romantic fantasies about Vikings. Most of them are wrong! Many pictures show them wearing horned helmets. But real Vikings wore round or pointed caps of iron or leather

(p. 13).

Who were the Vikings?

 \overline{F} or 300 years, from the 8th to 11th centuries, the Vikings took the world by storm. In search of land, slaves, gold, and silver, these brave warriors and explorers set sail from their homes in Norway, Sweden, and Denmark. They raided across Europe, traveled as far as Baghdad, in modern Iraq, and even reached North America. The speed and daring of Viking attacks was legendary. Christian monks wrote with horror about the violent raids on monasteries and towns. But the Vikings were more than wild

barbarians from the north. They were shrewd traders, excellent navigators, and superb craftsmen and shipbuilders. They had a rich tradition of story-telling, and lived in a society that was open and

democratic for its day.

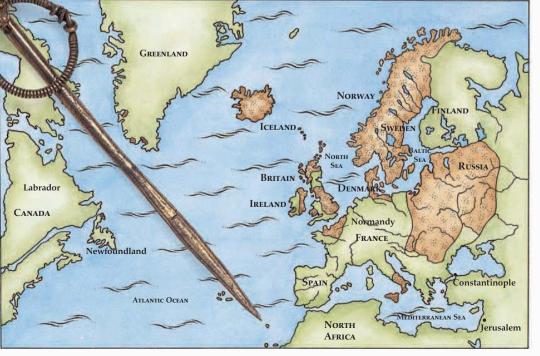
CATTY BROOCH A Swedish Viking held his cloak in place with this brooch. It is made of silver coated in gold. The details are highlighted with niello, a black metallic compound. The style of decoration, with little catlike heads, is known as the Borre style.

SCARY SHIP Vikings often carved terrifying beasts on their ships to scare their enemies (p. 10). This dragon head was found in a riverbed in Holland. It dates from the 5th century, 300 years before the Viking Age. It may have been part of a Saxon ship sunk during a raid. Sailing ships were known before the Vikings, but they were less sophisticated. Viking ships were fast and flexible, and could cruise up narrow channels

and inlets with ease.

THE VIKING WORLD The brown areas on this map are Viking settlements. From late in the 8th century, Vikings raided, traded, and explored far and wide. They discovered Iceland in 870 and sailed farther west to Greenland in about 985 (pp. 20-21). Leif the Lucky was probably the first European to set foot in North America. He is thought to have landed in Newfoundland, Canada, in around 1001. Vikings sailed east over the Baltic Sea and continued up rivers into Russia. They went on overland as far as the cities of Constantinople (now Istanbul) and Jerusalem. Other Vikings sailed around the west coast of Europe and into the Mediterranean Sea. Thanks to their ships and seafaring skills, they could take people

completely by surprise.





Lords of the sea

The vikings were superb sailors. Their wooden longships carried them across wild seas, riding the waves, dodging rocks and icebergs, and surviving storms. In open seas, the Vikings relied on a big, rectangular sail. To maneuver in coastal waters and rivers, they dropped the mast and rowed the ship instead. Whenever possible, they sailed within sight of land. Far from the coast, Vikings navigated by the Sun and stars. Their knowledge of seabirds, fish, winds, and wave patterns helped them find their way. Wood rots quickly, so there is little left of most longships. But, fortunately, a few have survived, thanks to the Viking custom of burying rich people in ships (pp. 54-57). The best preserved are the Oseberg and Gokstad ships from Norway. Both are slender, elegant vessels, light but surprisingly strong. Sixteen strakes on each side,

each one overlapping the strake below.

oarports (holes for oars) on each side

GOKSTAD SHIP, FRONT VIEW

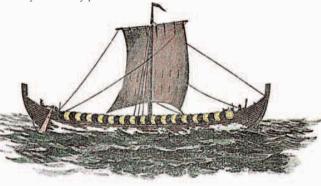
One of the grandest Viking ships was found at Gokstad, beside Oslo Fjord in Norway. It was excavated in 1880. The elegant lines of the prow and strakes (planks) show the skill of the shipbuilders. The ship is 76 ft (23.2 m) long and 17 ft (5.2 m) wide. The keel is a single piece of oak, cut from a tree at least 82 ft (25 m) tall!

Stem-post, or prow

> Ship is made of light oak wood with a heavier mast of pine



The Norwegian ships were preserved by unusual wet conditions. The Gokstad ship sat in a large mound with a burial chamber on its deck. The skeleton of a man lay in the chamber, surrounded by his worldly possessions. He had been buried in around 900.



SAILING TO THE WINDY CITY

The Gokstad ship had 32 shields on each side, alternately painted yellow and black. A full-size replica was sailed across the Atlantic Ocean to Chicago in 1893.

It proved how seaworthy the real ship must have been.

> Gunwale (top strake)

> > LEARNING THE ROPES Coins and picture stones give clues about how Viking ships were rigged (roped) and sailed. This coin, minted in Hedeby, Germany, shows a ship with a furled (rolled-up) sail.

Mast fish, to lock the mast in place

RAISING THE GOKSTAD MAST

The heavy mast was lowered into a groove in the keelson and held in place by the mast fish. The deck boards were loose, so the sailors could store their belongings under them.

Deck boards Keelson, which runs

above the keel

Keel



UNWELCOME GUESTS A ship full of fierce warriors suddenly landing on the beach filled people with fear and horror. This highly romanticized picture of Viking raiders appeared in a French magazine in 1911.

Dragon made of carved and painted pine wood.

A Viking warship

LIGHT AND SLENDER, the Viking warship carried warriors far across the ocean. It was the longest, sleekest, and quickest Viking vessel. Like other longships, the warship had a sail and mast, but could also be rowed. Depending on its size, it needed from 24 to 50 oars. On long voyages, the Viking warriors rowed in shifts. They could glide their ship up narrow inlets and land on any flat beach. Even when it was full, the warship had such a shallow keel that it did not need a jetty or quay and could be unloaded right on the shore. Some of the ships carried horses as well as warriors.

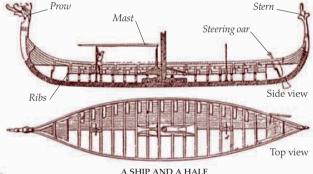
When beached, both animals and men could wade ashore. Two well-preserved warships were discovered in the Roskilde Fjord in Denmark. They had been filled with stones and deliberately sunk around the year 1000. The longest one is 92 ft (28 m) from prow to stern, making it the longest Viking ship ever found.

Detachable wooden figurehead.

DANISH DRAGON SHIP

In 1962, five Viking ships were excavated from Roskilde Fjord in Sjælland, Denmark. They had been scuttled (sunk deliberately), probably to block a channel and protect the harbor from enemy ships. This is a reconstruction of one of the warships. It was 57 ft (17.4 m) long and only 8 ft 6 in (2.6 m) across at the widest point. The ship had seven strakes (planks) on each side, the top three made of ash, the bottom four of oak. There were 13 oarports (holes) on each side, so 26 men could row together.

> Leather thong holds the figurehead in place



A SHIP AND A HALF

Cross beams and ribs helped to strengthen the hull of a Viking ship. The gaps between the strakes were stuffed with tarred wool. This is called caulking. It kept the water out and made the ship more flexible in rough seas.

Original rope may

have been made of walrus skin Mooring post

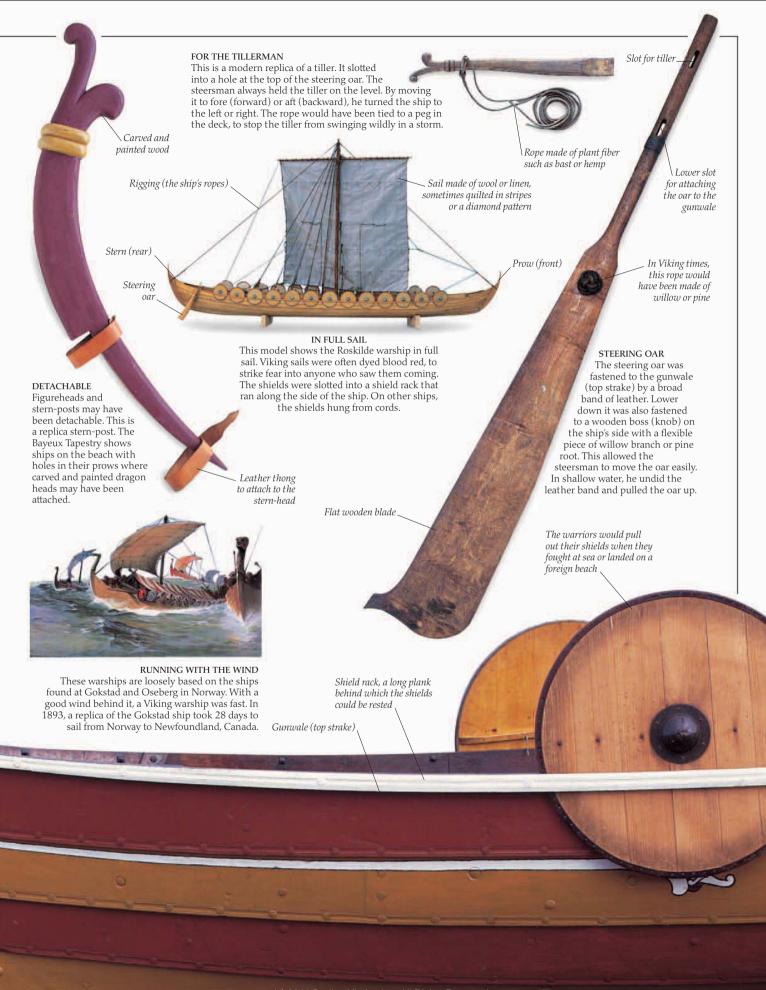


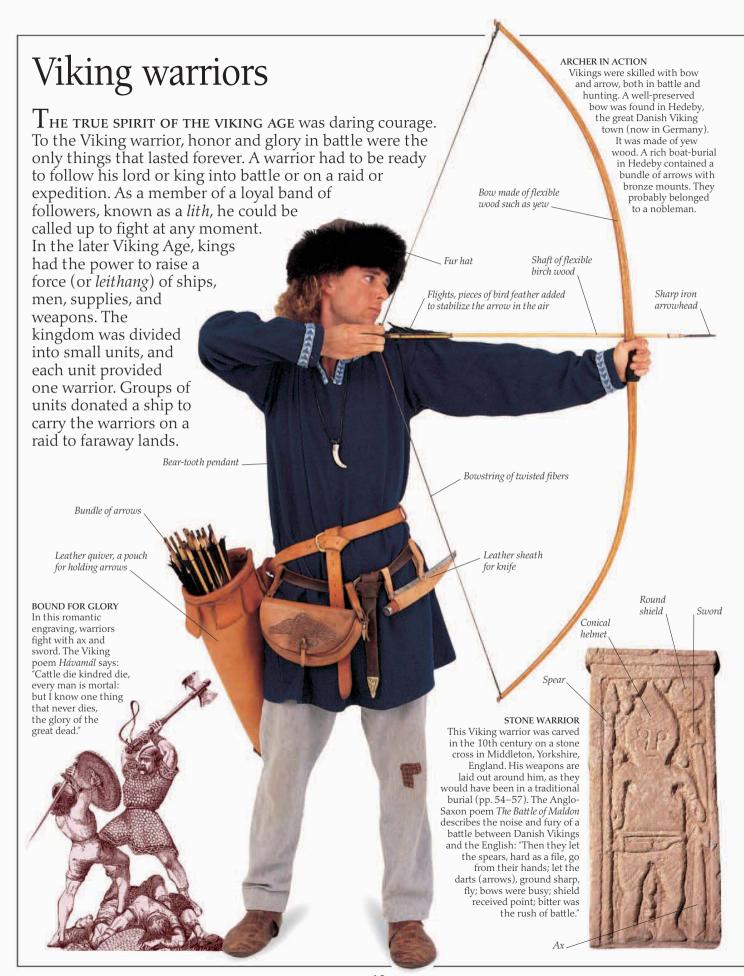
WILLIAM'S WARSHIP

The Normans were descended from Vikings who settled in Normandy, France (p. 16). The Bayeux Tapestry describes their conquest of England in 1066. In this scene, the proud ship of the Norman leader, William the Conqueror, sails toward England. A lookout in the stern blows a horn, while the steersman holds the tiller, attached to the steering oar. The ship has an animal-head prow, and shields line its sides.

Hull made of seven slender strakes

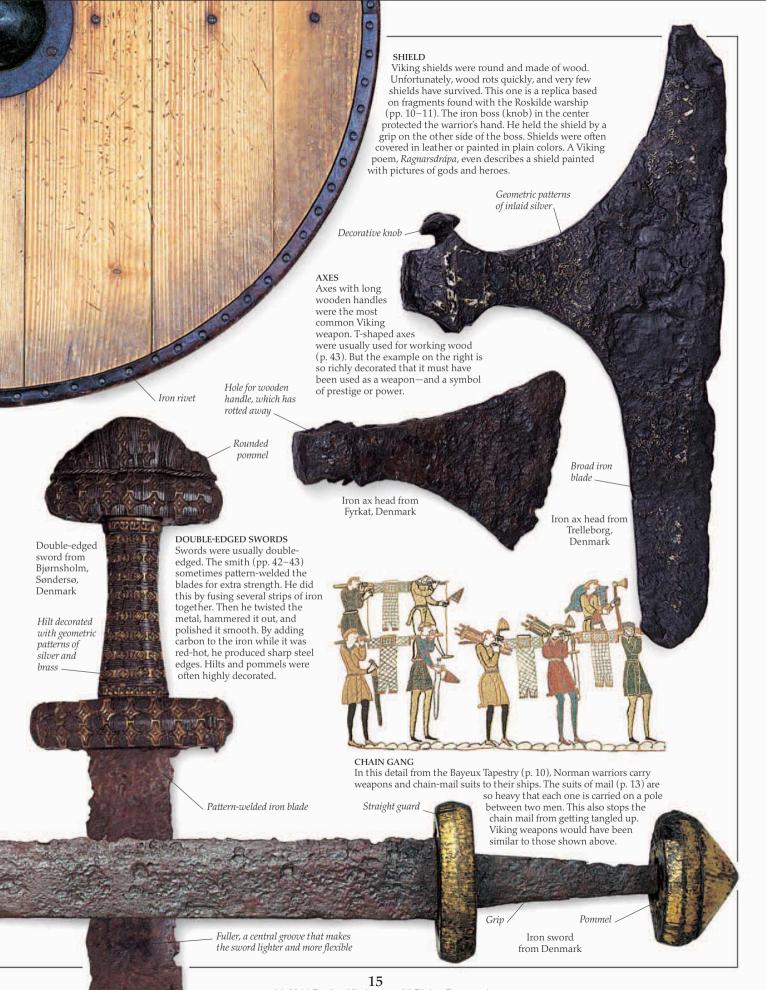
> Each strake overlaps the one below, in a technique called clinker boat-building











Terrorizing the west

The vikings swept into western Europe, terrorizing towns along the coast, plundering churches and grabbing riches, slaves, and land. The first dated raid, on the famous monastery of Lindisfarne, England, in 793, shocked the whole Christian world. From then on, attacks all over Europe intensified. Bands of Viking warriors roamed the North Sea and the English Channel, raiding choice targets almost at will. Soon the Vikings were venturing farther inland. They sailed up the great

Animal-head lead weight made

THROWN INTO THE THAMES

This Viking sword was found in the Thames River in London. This big English city was attacked many times, once by 94 ships. But it was never taken.



SOUVENIR OF PARIS

blade

Paris was conquered on Easter Sunday, March 28, 845. Charles the Bald, the French king, had to pay the raiders 7,000 lb (3,150 kg) of silver to get peace. The Viking leader Ragnar even took a bar from the city gate as a souvenir. But he and most of his men died of disease on their way back to Scandinavia.



SLAUGHTER

Lindisfarne is a small island off the east coast of England. The celebrated monastery there was destroyed by Vikings in 793. These warriors carved on a stone from the island may well be the Viking raiders. The Anglo-Saxon Chronicle, a contemporary English historical record, reported: "The ravages of heathen men miserably destroyed God's church on Lindisfarne, with plunder and slaughter."

RAIDING FRANCE

This picture of a Viking ship is in a French manuscript from around 1100. Viking ships attacked French towns and monasteries all through the 9th century. One group of Vikings settled in the Seine region. Another band, under the chieftain Rollo, made their homes around Rouen. This area became known as Normandy, "Land of the Northmen."



rivers of Europe—the Rhine, Seine, Rhone, and Loire—

storms on the way home.

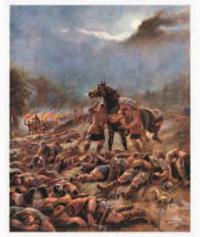
and even overran Paris, France. The raiders began to

spend the winters in areas they had captured. Then

they set up bases to attack other targets. The Vikings often demanded huge payments for leaving an area in peace. Some warriors spent many years raiding. Björn Jarnsitha and his companion Hasting spent three years with 62 ships in Spain, North Africa, France, and Italy. They lost a lot of their treasure in



KILLING THE KING
King Edmund was king of East
Anglia in England in 869.
This 12th-century
manuscript shows him
being beaten by Vikings.
Then they tied him to a
tree and shot him full of
arrows. Edmund still
refused to give up his belief
in Christ, so they cut off his head.
The Vikings later settled in East Anglia
under their leader King Guthrum.



IRISH CROOK
Raids on Ireland began
in 795. By the 820s, the
Vikings had worked their
way around the entire
island. The town of
Dublin became a thriving
Viking trading center
with links to many other
countries. This wooden
animal head comes from
a crook or walking stick.
It was made in Dublin,
but it is decorated in the
Viking Ringerike style.

It dates from early in the 11th century.

Small pieces

Interlace

designs, typical of

Dublin Viking art

Hollow box of yew wood covered in plates of tin

SCOTCHED

This imaginary scene depicts the Viking invasion of Scotland. Many of the raiders were Norwegians who came via the Shetland and Orkney Islands. From these resting places, the many Hebridean islands, the Isle of Man, and Ireland were all within easy reach.



DEATH OF THE ARCHBISHOP
In 1012, Archbishop Alphege of
Canterbury was seized by Vikings
who were raiding the English
countryside. They were angry
because the English King Ethelred
had not paid them quickly enough.
Alphege refused to be ransomed.
The Vikings, who were drunk, pelted
him with bones and cattle skulls. He
was finally killed with a battle ax.

RANVAIK'S SHRINE

This shrine, or casket, was made in Scotland or Ireland in the 8th century. It held holy Christian relics. It was probably taken to Norway as loot. There the new owner inscribed a message in runes (pp. 58–59) on the bottom: "Ranvaik owns this casket."



VIKING GRAFFITI This stone lion once stood in the Greek port of Piraeus. A Viking traveler inscribed it with long, looping bands of runes, Scandinavian writing (pp. 58-59). Such graffiti is often the only evidence of where Vikings traveled. Much later, in 1687, Venetian soldiers carried the lion off to Venice. The runes have eroded too much to be read today.

High-quality rock crustal shaved like a convex lens

East into Russia

m To cross into russia, Viking warriors and traders sailed up various rivers such as the Dvina, Lovat, and Vistula in Poland. Then they had to drag their boats across land before they reached the headwaters of the Dniepr, Dniester, and Volga rivers and followed them south to the Black and Caspian seas. From there, the great cities of Constantinople (heart of the Byzantine empire) and Baghdad (capital of the Islamic Caliphate) were within reach. The history of Viking raids in the east is not as well recorded as in western Europe. In about 860, a group of Swedish Vikings under Rurik settled at Novgorod. After Rurik's death, Oleg captured the town of Kiev. He established an empire called Kievan Rus, which would



An Oriental tree of life is etched on the surface of this silver locket. It may have been an amulet, perhaps full of strong-smelling spices. The locket was found in a grave in Birka, Sweden. But it was probably made in the Volga area of Russia, or even as far south as Baghdad.



EASTERN FASHIONS

Gotland is an island in the Baltic Sea. Gotland Vikings traveled far into Russia, and their excellent craftsmen often adopted styles from the east. These beads and pendant are made of rock crystal set in silver. They were probably made in Gotland, where they were found. But the style is distinctly Slav or Russian.





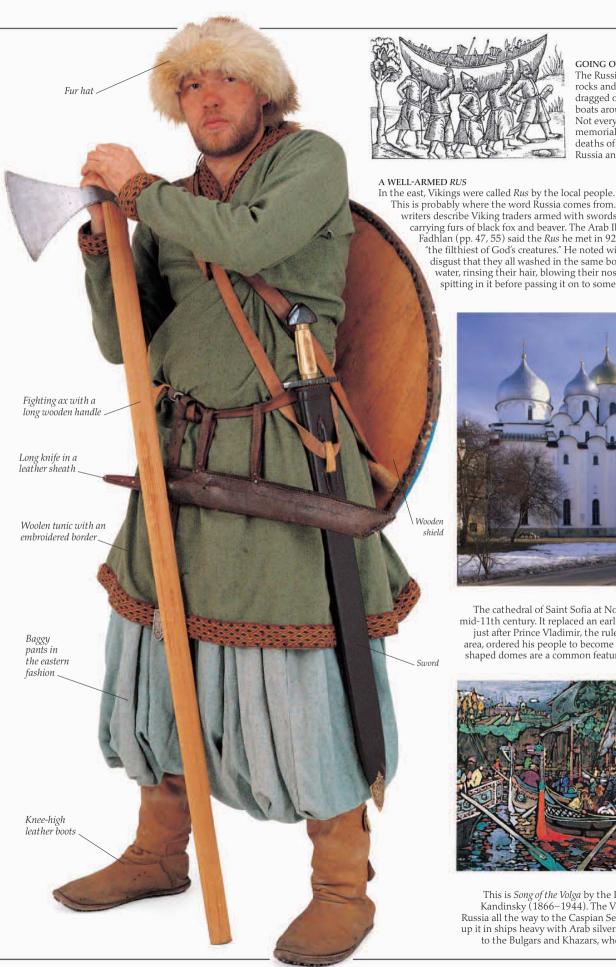
SWEDISH VIKINGS

Most of the Vikings who traveled to Russia and the east were Swedish. Of more than 85,000 Arab coins found in Scandinavia, 80,000 were found in Sweden. Many 11thcentury Swedish rune stones tell of voyages to the south and east. They record the deaths of travelers in Russia, Greece, the Byzantine Empire, and even Muslim lands. Most Viking settlements were temporary trading stations. Others, like Kiev and Novgorod, were more

permanent. A sign of this is that women lived there, too.







GOING OVERLAND

The Russian rivers were full of rocks and rapids. The Vikings dragged or carried their light boats around these dangers. Not everyone made it. Swedish memorial stones record the deaths of many travelers in Russia and lands beyond.

This is probably where the word Russia comes from. Arab writers describe Viking traders armed with swords and carrying furs of black fox and beaver. The Arab Ibn Fadhlan (pp. 47, 55) said the *Rus* he met in 922 were "the filthiest of God's creatures." He noted with disgust that they all washed in the same bowl of water, rinsing their hair, blowing their noses, and spitting in it before passing it on to someone else!



VIKING CHURCH

The cathedral of Saint Sofia at Novgorod dates from the mid-11th century. It replaced an earlier church built in 989, just after Prince Vladimir, the ruler of the Vikings in the area, ordered his people to become Christians. The onionshaped domes are a common feature of Russian churches.



SONG OF THE VOLGA

This is Song of the Volga by the Russian painter Wassili Kandinsky (1866–1944). The Volga River flows across Russia all the way to the Caspian Sea. Viking traders sailed up it in ships heavy with Arab silver. They had to pay taxes to the Bulgars and Khazars, who lived along its banks.

GREEN AND RED A man named Gunnbjörn found Greenland after his ship was blown off course in a storm. The huge island was explored in 984 and 985 by Erik the Red, a chief who had been accused of murder and forced to leave Iceland. Erik encouraged hundreds

of Icelanders to settle in Greenland.

Discovering new lands

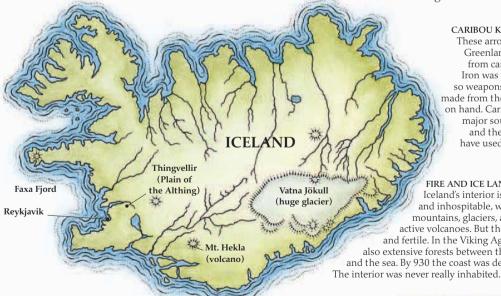
THE VIKINGS WERE DARING EXPLORERS. In search of new land, they sailed their slender ships into the frozen, uncharted waters of the North Atlantic. Most of the explorers came from Norway, where the valleys were crowded and farmland was scarce. They discovered the Faroe Islands and Iceland, as well as far-off Greenland and the land they called Vinland (North America). As reports of these exciting discoveries got back to Scandinavia, ships full of eager settlers set sail. Between 870 and 930, for example, more than 10,000 Vikings arrived in Iceland. They found empty spaces, wild forests, and seas teeming with fish. The sea voyages were long and dangerous, and many ships sank in storms. But the urge to travel to new lands remained strong.



MEETINGS IN THE PLAIN In southwestern Iceland is a high plain surrounded by cliffs of lava. This plain, called Thingvellir, was chosen as the site for the Althing, Iceland's governing assembly, which met once a year in the open air. The Althing is thought to have first met in 930.

Iceland

Iceland is a volcanic island that was first colonized in 870. In good weather it took seven days to get there from Norway. The first settler was Ingolf, from Sunnfjord, Norway. He built a large farm on a bay overlooking the sea. This later became the capital, Reykjavik. The settlers raised sheep and used local iron and soapstone to make weapons and cooking pots. Soon they were exporting these natural resources, along with woolen and linen cloth.



HELGE'S ANIMALS

This elegant piece of carved wood was discovered in the ruins of a house in Greenland. It dates from the 11th century. It may be the arm of a chair, or a tiller used to steer a boat. The surface is carved with animals with big eyes that look like cats. A runic inscription at the end probably proclaims the owner's name, Helge.

have used these arrows to hunt them FIRE AND ICE LAND Iceland's interior is harsh and inhospitable, with jagged mountains, glaciers, and several active volcanoes. But the coast is green and fertile. In the Viking Age, there were also extensive forests between the mountains and the sea. By 930 the coast was densely populated.

CARIBOU KILLS CARIBOU These arrowheads from Greenland are carved from caribou antler. Iron was very scarce, so weapons had to be made from the materials on hand. Caribou were a major source of food, and the settlers may



Modern tapestry showing Leif the Lucky sighting Vinland

HOFIPR I I HAVE RAVE HAVE THE PART OF THE

EXPLORING THE FROZEN NORTH

This rune stone was found at Kingiktorsuak, Greenland, at latitude 73° north. It proves that settlers explored the frozen north of the island. The stone was carved in around 1300. Around 100 years after this date, the last descendants of the Vikings in Greenland perished.

North America

Leif the Lucky, Erik the Red's son, explored land in North America during a trip from Greenland (another account says that Bjarni Herjolfsson reached the coastline a few vears before). Around 1001, Leif became the first European to set foot in North America, probably in Newfoundland, Canada. He called it Vinland (Wine Land), perhaps mistaking the big huckleberries he saw for red grapes. The Vikings also discovered Markland (Wood Land) and Helluland (Rock Land). These may be Labrador and Baffin Island to the north.



VIKINGS IN VINLAND

Evidence of Viking settlements in North America includes one located at L'Anse aux Meadows in Newfoundland, and one to the north on Ellesmere Island. Large houses with thick turf walls have been unearthed, and objects such as a dress pin, a spindle whorl (p. 44), and a coin have

been found. The Vikings may have sailed farther south along Nova Scotia, perhaps as far as New England, but there is no firm evidence of this.



GREENLAND INUIT

The Inuit (Eskimos) made everything they needed from the natural resources of the land and sea. But the Vikings had to import lumber, iron, and grain to survive.

Greenland

Most of this inhospitable island is covered in ice and snow. Erik the Red called it Greenland to encourage people to move there. The Vikings established two settlements, the eastern and western settlements, in the only areas where the land could be farmed. They built their farms on the edges of fjords, often far inland. They farmed sheep and cattle, but depended mainly on caribou and seals for food.

. Animal head

The Inuit in Greenland made weapons from the bones of seals, whales, and caribou. This whalebone ax head from a Viking farm shows that the Vikings did the same. Its shape is very similar to iron ax heads (p. 15), but it wouldn't have been as strong. It is probably a toy

made for a child.

WHALEBONE AX

Animal with gaping jaws and huge teeth

A Viking fort

Two roads crisscrossing the fort

The vikings built four great circular forts in Denmark. Two of them, at Aggersborg and Fyrkat, are on the Jutland peninsula. The other two are at Trelleborg, on the island of Sjælland, and Nonnebakken, on the island of Fyn. It used to be thought that King Svein Forkbeard built them as military camps for launching his invasion of England in 1013. But dendrochronology (tree-ring dating) has proved that the forts were built earlier, around 980. It is now thought that King Harald Bluetooth had them constructed to unify his kingdom and strengthen his rule. Bones dug up in cemeteries outside the ramparts prove that women and children lived there as well as men. Some of the fort buildings were workshops, where smiths forged weapons and jewelry from gold, silver, and iron.



THE WALLS GO UP

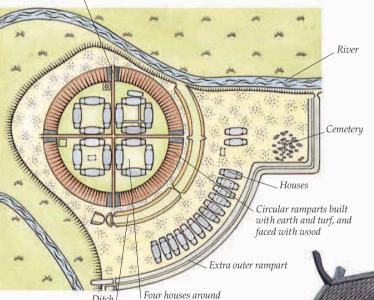
The first step in building a fort was clearing the land and preparing the timber. This detail from a 15th-century Byzantine manuscript shows Swedish Vikings making the walls of Novgorod, Russia, in the 10th century.



Aerial photograph of the site of the Trelleborg fortress

TRELLEBORG

The forts had a strict geometrical layout, Each one lay within a high circular rampart—a mound of earth and turf held up by a wooden framework. This was divided into four quadrants by two roads, one running north-south, the other east-west. Four long houses sat in a square in each of the quadrants. The roads were paved with timber. Covered gateways, which may have been topped with towers, guarded the spots where the roads met the rampart. The largest fort, Aggersborg, was 790 ft (240 m) in diameter. Trelleborg was much smaller, 445 ft (136 m) across. Trelleborg is unusual because 15 extra houses were built outside the main fort. These were protected by their own rampart. All four forts were built on important land routes, possibly so that King Harald could keep an eye on the area in case of rebellion.



TRELLEBORG HOUSE, SIDE VIEW

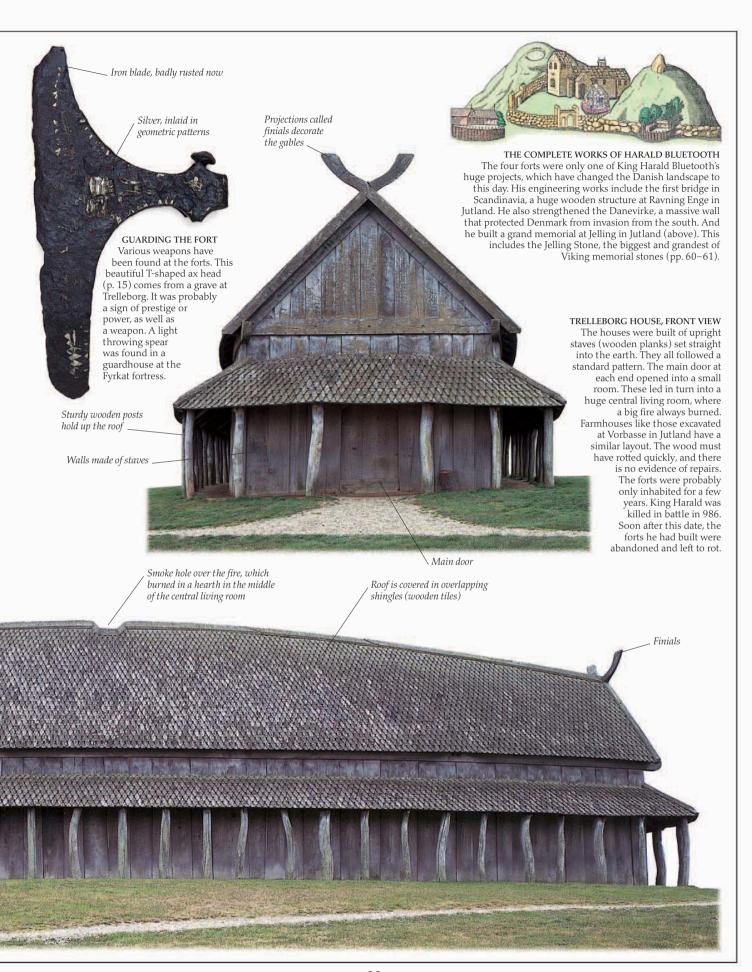
a square yard

The buildings at the forts were made of wood, which rotted away a long time ago. All that is left are ghostly outlines and black holes where the posts once stood. This replica of a house was built in 1948. It is 96 ft 5 in (29.4 m) long. The elegant, curving roof is said to be

Layout of the Trelleborg fortress

hog-backed in shape. House-shaped gravestones and caskets from England give an idea of how it once looked. Experts now believe that there was only one roof, which reached all the way down to the short outer posts.





BRONZE-AGE BOATS Rock carvings in Sweden

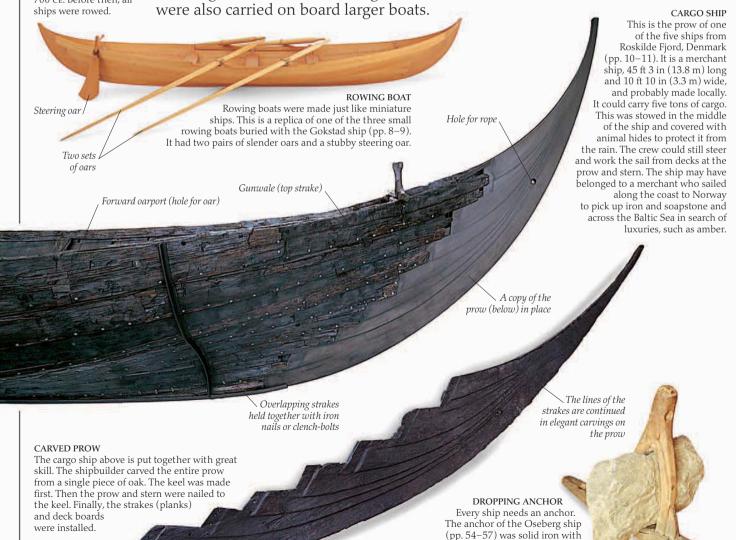
BRONZE-AGE BOATS
Rock carvings in Sweden
and Norway show boats
from as early as 1800 BCE.
Sails were developed in
Scandinavia just before
the Viking Age, around
700 CE. Before then, all
ships were rowed.

Other ships

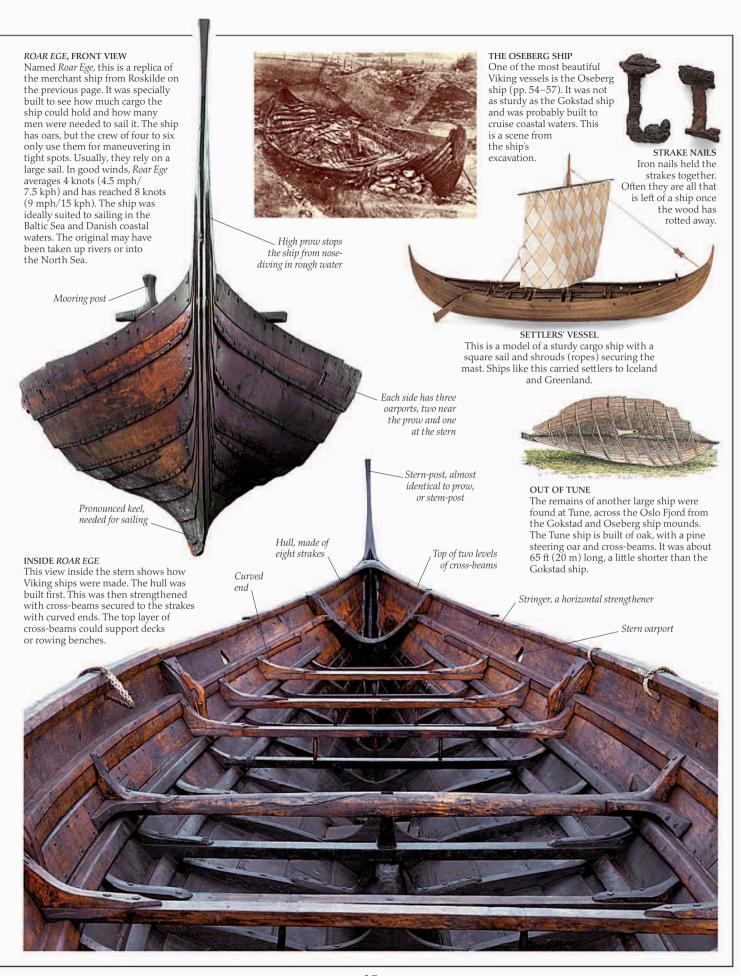
The vikings built ships and boats of many shapes and sizes, suited to different waters and uses. They were all variations on the same design, with overlapping strakes (planks), a keel, and matching prow and stern. Only the longest, fastest vessels were taken raiding. Cargo ships were slower and wider, with lots of room for storing goods. Other boats were specially made for sailing in narrow inlets and rivers, following the coast, or for crossing oceans. There were fishing boats, ferries for carrying passengers across rivers and fjords, and small boats for traveling on lakes. Small rowing boats were also carried on board larger boats.



LEIF SIGHTS NORTH AMERICA
Explorers sailed wide-bodied, sturdy ships. These were much heavier than warships and had more space for passengers and their belongings and supplies. In this dramatic interpretation of Leif the Lucky's voyage to North America (p. 21), Leif is shown pointing in wonder at the new continent. His other hand holds the tiller. The raised deck at the stern (back) can be clearly seen. Leif was Erik the Red's son (p. 20), and is also known as Leif Eriksson.



an oak frame. It weighed 22 lb (10 kg). This stone anchor comes from Iceland.



Trading east and west

THE VIKINGS WERE GREAT TRADERS who traveled far beyond Scandinavia buying and selling goods. The riches of the north included lumber for shipbuilding; iron for making tools and weapons; furs for warm clothing; skins from whales and seals for ship ropes; and whalebones and walrus ivory for carving. These were carried to far-flung places and exchanged for local goods. The traders returned from Britain with wheat, silver, and cloth, and

brought wine, salt, pottery, and gold back from the Mediterranean. They sailed across the Baltic Sea and upriver into Russia, then continued on foot or camel as far as the cities of Constantinople (now Istanbul) and Jerusalem. In markets all along the way, they haggled over the price of glass, exotic spices, silks, and slaves.

Markets and towns grew as centers for trade. Big Viking market towns included Birka in Sweden, Kaupang in Norway, Hedeby in Germany (at the time in Denmark), York in England,

Dublin in Ireland, and Kiev in Ukraine.

THE SLAVE TRADE Some Vikings made their fortunes trading slaves. They took many Christian prisoners, like this 9th-century French monk. Some slaves were taken home for heavy farm and building work. Others were sold for silver to Arab countries.

Die for striking (making) coins, found at York, England

Three early Danish coins

THE COMING OF COINS
Coins only became common

toward the end of the Viking Age. Before then, they used pieces of silver and other people's coins, or traded by bartering—swapping for items of similar value. The first Danish coins were struck in the 9th century. Not until 975, under King Harald Bluetooth, were coins made in large numbers.



MADE IN ENGLAND?

One of the many beautiful objects found with the Oseberg ship (pp. 54–57) was this unusual bucket. Attached to its handle are two brass figures with crossed legs that look just like Buddhas. But the Vikings were not Buddhists, and the craftsmanship suggests that the figures were made in England. So how did the splendid bucket end up in a queen's grave in Norway? It must have been traded and brought back from England.

RHINE GLASS
Only rich Vikings drank from glass cups. Many have been found in Swedish graves. This glass must have been bought or stolen in the Rhineland, in modern Germany.

Staves (planks) of yew wood

Band of brass



TUSK, TUSK

The Vikings hunted walruses for their hides, which were turned into ship ropes. The large animals were skinned in a spiral, starting from the tail. Traders also sold the animal's ivory tusks, either unworked or beautifully carved.







Toggle (fastener)

BEST FOOT FORWARD
Rich or poor, leather shoes were of a

simple design. Fancy pairs had colored uppers, ornamental seams, or even inscriptions. The most common leather for shoes was goatskin.

made of antler



would protect the innocent.

PEASANT WARRIOR

furniture and his wife

farmer or freeman.

keys, a symbol of

her status (p. 33).

Karl's wife wears fine goatskin and carries

weaves. They have a son named Karl, meaning

This peasant was not rich, and dressed simply. But he was a freeman, and owned his own farm, which his wife would look after when he went to war. The 10th-

century poem *Rigsthula* describes a peasant couple: he makes

FIGHTING IT OUT This is the *Duel at Skiringsal*, painted by the Norwegian artist Johannes Flintoe in the 1830s. Disputes were often settled by a duel, which could end in death. These gruesome fights were forbidden by law in Iceland and Norway in around 1000. Arguments could also be sorted out by the Thing (the local assembly), or by tests called ordeals. In ordeals, men would try to prove their innocence by picking stones from a cauldron of boiling water or carrying a hot iron for nine paces. The Vikings believed that the gods



BRYNHILD

This is a romantic engraving of Brynhild. According to legend, she was a Valkyrie, a female warrior in the service of the god Odin (p. 53). In reality, there is no evidence that any Viking women were warriors, or even traders or craftsworkers. But one female *scald* (poet) and a female rune carver are known.

Women and children

Viking women were independent. While the men were away on expeditions, women ran households and farms. A woman could choose her own husband, and could sue for divorce if he beat her or was unfaithful. On rune stones (pp. 58–59), women were praised for their good housekeeping or skill in handiwork such as embroidery. Wealthy women often paid

for memorial stones to be raised for loved ones. Viking children didn't go to school. Instead, they worked in the fields and workshops, and helped

with cooking, spinning, and weaving. Not all women and children stayed at home. Many joined their husbands or fathers in colonies such as England. They hid somewhere safe during battles, and

____ Toy spear

made of wood

 Piece of leather covers the point,

to prevent injury

came out later to help set up new villages.

Woolen tunic with embroidered collar



About 900 years ago, a small boy or girl in Trondheim, Norway, played with this toy horse made of wood. Children also had toy boats. They played board games and made music with small pipes (p. 50). In the summer, young Vikings swam and played ball; in the winter, they skated and played in the snow.

STARTING YOUNG Viking boys played with toy weapons made of wood. They probably began serious weapon practice in their early teens. Some young men seem to have gone raiding when they were as young as 16.

> Two carved animal heads with open jaws

> > Decorated belt end .

Toy sword

BONE SMOOTH

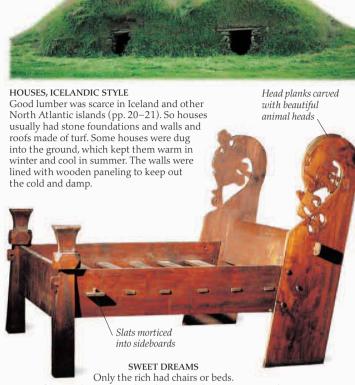
One of a woman's main responsibilities was making clothes for the whole family (pp. 44–45). After she had woven a piece of linen, a woman probably stretched the cloth across a smoothing board and rubbed it with a glass ball until it was smooth and shiny. This board from Norway is made of whalebone.

Leather bag



At home

Home life revolved around a central hall or living room. The layout was much the same all over the Viking world. A long, open hearth (fireplace) burned in the center, with a smoke hole in the ceiling above. The floor was stamped earth. The people sat and slept on raised platforms along the curved walls. Pillows and cushions stuffed with duck down or chicken feathers made this more comfortable. Wealthy homes might have a few pieces of wooden furniture and a locked chest for precious belongings. Houses often had smaller rooms for cooking or spinning on either side of the main hall. Small buildings with low floors dug out of the ground were used as houses, workshops, weaving sheds, or animal barns. A chieftain's hall could be lined with wall hangings or carved or painted wooden panels. In around 1000, an Icelandic poet described panels decorated with scenes of gods and legends in the hall of a great chieftain. The poem was called *Húsdrápa*, which means *poem in praise of the house."



Ordinary Vikings sat on benches or stools, or just squatted or sat cross-legged on the floor. At night, they stretched out on rugs on raised platforms. The wealthy woman in the Oseberg ship (pp. 54-57) was buried with not one but three beds. This is a replica of the finest one. It is made of beech wood. The head-planks are carved in the form of animal heads with arching necks. The woman probably slept on a feather mattress and was kept warm by an eiderdown, a quilt filled with down or feathers.



End view of the Trondheim house

TRONDHEIM HOUSE

This is a model of a house built in Trondheim, Norway, in 1003. Its walls are horizontal logs notched and fitted together at the corners. A layer of birchbark was laid on the pointed roof and covered with turf. The bark kept the water out, while the earth and grass acted as insulation. Houses were built in various other ways, depending on local traditions and the materials on hand. Wooden walls were often made of upright posts or staves (planks), as in the Danish forts (pp. 22–23). Others had walls of wattle (interwoven branches) smeared with daub (clay or dung) to make them waterproof. Roofs could be covered in shingles (wooden tiles), thatch, turf, or matted reeds



house



FOOD FROM THE SEA The sea was full of fish. For Vikings who lived near the coast, fish was the staple food. The bones of cod, herring, and haddock have been found in many Viking settlements. People also caught eels and freshwater fish, such as trout, in the many rivers and lakes that crisscross Scandinavia.

DRIED COD

Food had to be preserved so it would keep through the winter. Fish and meat were hung in the wind to dry. They could also be pickled in saltwater. Salt was collected by boiling

seawater, a boring job

usually given to slaves.

probably also smoked.

Fish and meat were

Mealtime

ALL DAY LONG, the fire in the hearth was kept burning for cooking and heating. The hole in the roof above the fire didn't work very well, so Viking houses were always full of smoke. Rich households had baking ovens in separate rooms. These were heated by placing hot stones inside them. Vikings generally at

inside them. Vikings generally ate two meals a day: one early in the morning, dagverthr (day meal), and the other in the evening, náttverthr (night meal), when the day's work was finished. Most Vikings drank beer made from malted barley and hops. But while the poor drank from wooden mugs, the rich used drinking horns with fancy metal rims. Wealthy people also enjoyed

Pine tree, source of

kernels

and bark

wine imported in barrels

from Germany.

Dried



NORMAN FEAST

This feast scene from the Bayeux Tapestry (p. 10) shows a table laden with food and dishes. Vikings sat around trestle tables. The wealthy had richly decorated knives and spoons and imported pottery cups and jugs. More ordinary people ate and drank from wooden bowls and cups.



HOME-GROWN CABBAGE

Cabbages and peas were the most common vegetables. Vikings often gathered vegetables in the wild.

Cumin, a spice found in the Oseberg burial

FIT FOR A QUEEN

Horseradish was one of the seasonings found in the Oseberg burial ship (pp. 54–57), along with wheat, oats, and fruit.

Horseradish

Norman cooking meat



PEAS AND PINE BARK

Poor Vikings made bread with whatever

contained dried peas and pine bark.

they could find. One loaf found in Sweden



BAKING BREAD
Bread was kneaded in
wooden troughs. Then it
was baked on a griddle over
a fire (as in this 16th-century
Swedish picture) or in a pan
that sat in the embers.
Barley bread was most
common, but rich people
had loaves made of
finer wheat flour.



Animals, wild and imagined



BROWN BEAR
Bears were hunted in the far north. Their skins were made into jackets and cloaks, and their claws and teeth were worn as pendants. Warriors may have thought that some of the bear's strength and courage would rub off on them (p. 14).

A Viking craftsman would have turned

them into fantastic creatures.

Bears, wolves, mink, foxes, deer, and wild boar all roamed the dark forests of Norway and Sweden. Whales, otters, seals, walruses, and caribou lived in the far north. Sea birds flocked along the coasts, and game birds were common inland. The Vikings hunted most of these animals for their meat. They made clothes and bedding from feathers, furs, and hides, and bones and tusks were raw materials for jewelry, tools, and everyday objects like knife handles. Many of the finest objects were then traded (pp. 26–27). Viking legends and art are also crammed with wild beasts. But the animals that decorate jewelry, tools, and weapons are not real. They have been turned into fantastic and acrobatic creatures. Their hips are spirals, and plant shoots spring from their bodies. Some beasts become ribbons that twist around each other in intricate patterns.



BRONZE BEAST
This fierce animal with snarling teeth comes from a horse's harness bow (p. 41). It may have been intended to scare enemies and protect the horse and wagon.

with open areas

inside the main design





SHEARS Vilians sheared

SHEARS
Vikings sheared sheep, cut cloth, and even trimmed beards with iron shears like these.

Farming

Most vikings were farmers. They often had to work infertile land in harsh weather. The difficult conditions led many farmers to set sail for faraway lands like Iceland (pp. 20–21), where they hoped to find fertile soil and more space for their animals and crops. Sheep, cows, pigs, goats, horses, poultry, and geese were all raised for eating. The milk of cattle, goats, and sheep was drunk or turned into

JARLSHOF FARM

This ruin of a 9th-century Viking farmhouse was found on the Shetland Islands, Scotland. It had two rooms, a long hall, and a kitchen. The farmers sat

long hall, and a kitchen. The farmers s and slept on platforms that ran along the curved walls. A hearth burned in the center of the hall.

butter and cheese. Farms often had separate byres, sheds where cattle could pass the winter. Even so, many died of cold or starvation. Rich farms had byres to house 100 cattle. A man's wealth was often measured in animals. Othere, a merchant from northern Norway, told King Alfred of England that he had 20 cattle, 20 sheep, 20 pigs,

and a herd of 600 caribou. But his main source of income was the furs he traded.



MILKING CARIBOU

This 16th-century Swedish engraving shows a woman milking caribou. In the far North, people farmed caribou for their milk, meat, and hides. Caribou were also hunted in many places, including Greenland (pp. 20–21).

BLACK SHEEP

Hebridean sheep were farmed by Vikings on the Hebrides islands, off the coast of Scotland. Like Manx Loghtan sheep (p. 37), they shed their wool naturally, and do not have to be sheared. They can live on sparse vegetation and are very hardy.

Thick fleece was shed

once a year, in spring

HARVEST TOOLS

Two sickle blades

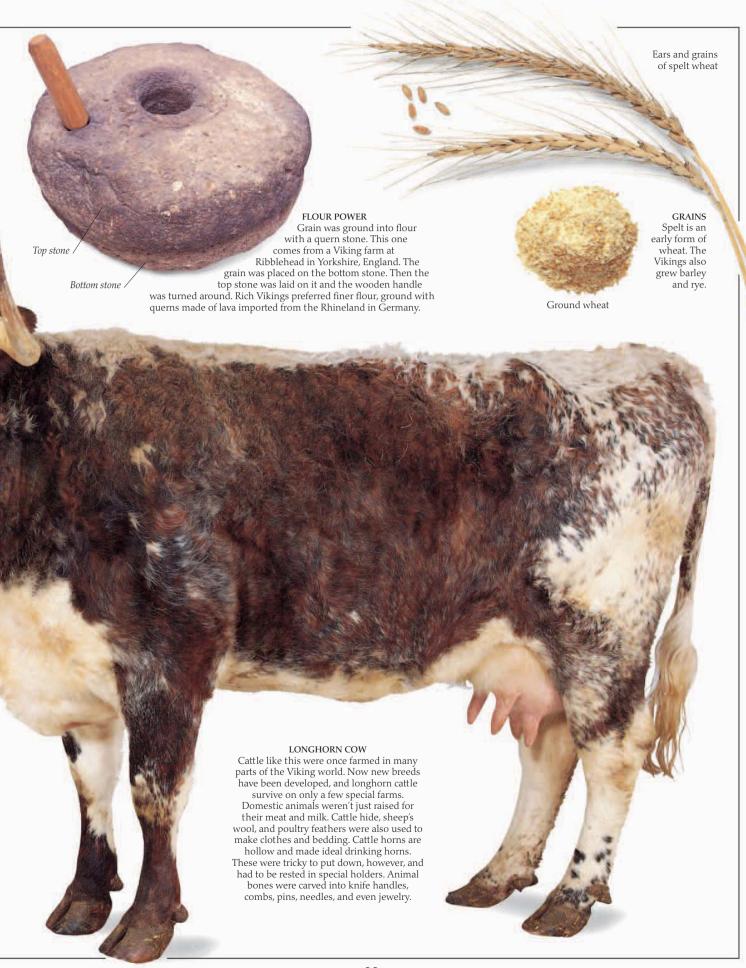
The ground was broken up in the spring with an ard, a simple plow. Later, grain was cut with iron sickles with wooden handles. The blades of these tools were sharpened with whetstones.



Ard blade

PLOWING AND SOWING This detail from the Bayeux Tapestry (p. 10) shows Norn

Tapestry (p. 10) shows Normans plowing (far left) and sowing seeds (left). The Vikings would have used similar techniques.



WELL GROOMED A complete wooden wagon was found in the Oseberg burial ship (pp. 54–57). It is the only one known from Viking times. The surface is covered in carvings, including four heads of Viking men. The men all have wellgroomed beards and mustaches.

Getting around

Much of scandinavia is rugged and mountainous. The large forests, lakes, and marshes make traveling difficult, especially in bad weather. Vikings went everywhere they could by ship. Traveling overland was often easiest in winter, when snow covered uneven ground and the many rivers and lakes froze over. People got around on sleds, skis, and skates. In deep snow, they wore snowshoes. Large sleds were pulled by horses. To stop the horses from slipping on the ice, smiths nailed iron crampons (studs) to their hooves. In the summer, Vikings rode, walked, or traveled in wagons pulled by horses or oxen. Roads stuck to high land, to avoid difficult river crossings. The first bridge in Scandinavia, a huge wooden trestle, was built near Jelling in Denmark around 979, probably on the orders of King Harald Bluetooth.



A GOOD DEED Christian Vikings thought building roads and bridges would help their souls go to heaven. This roadway in Täby, Sweden, was built by Jarlabanke (p. 59). He celebrated his good deed by raising four rune stones.



Bone ice skate from York, England

The word ski is Norwegian. Prehistoric rock carvings in Norway show that people have been skiing there for at least 5,000 years. The Vikings definitely used skis, but only one example has survived. Ice skates have been found all over the north. The Vikings called them ice legs. They were made by tying the leg bones of horses to the bottoms of leather boots. The skater pushed him or herself along with a pointed iron stick like a ski pole.

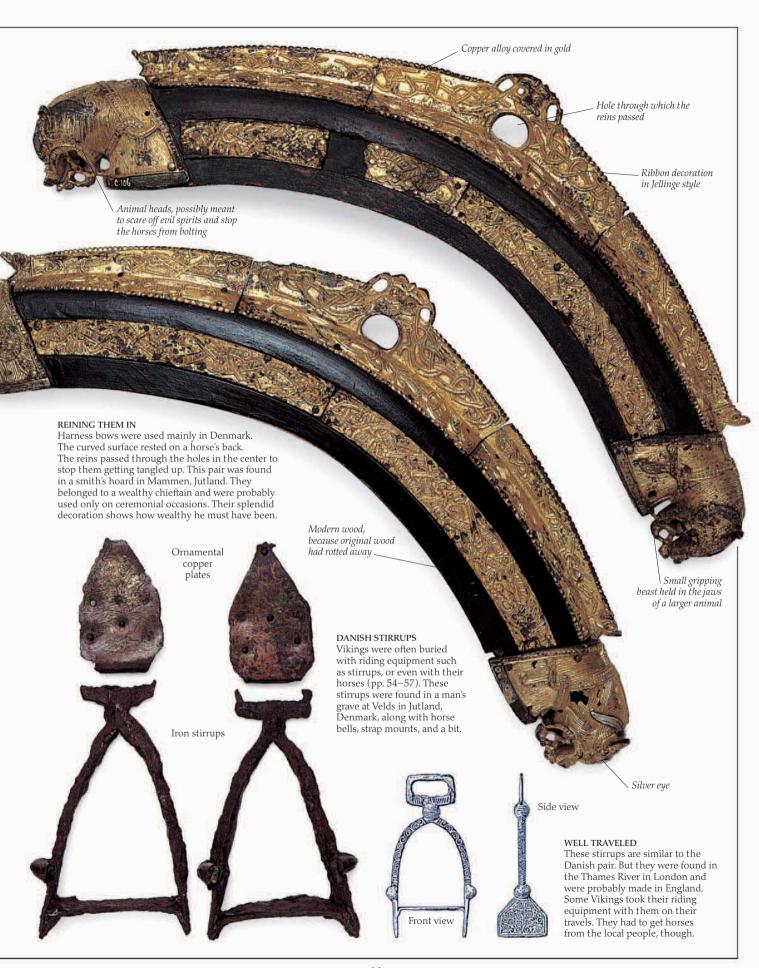


HORSING AROUND Vikings were fine riders. This silver figure of a horseman comes from Birka in Sweden. It dates from the 10th century. The rider is wearing a sword and must be a warrior

> SLED This is one of the three fine sleds from the Oseberg burial ship (pp. 54-57).

are carved with





In the workshop

The vikings owe their success in part to the skilled craftsmen who made their strong weapons and fast ships. The weapon smith who forged sharp swords, spears, and axes (pp. 14–15) was the most respected. But smiths also made all the iron tools for working metal and wood. They knew how to work different metals and how to decorate them with elaborate techniques. Smiths also produced everyday objects like locks and keys, cauldrons for cooking, and iron rivets for ships. Viking carpenters were also highly skilled. They made a wide range of objects, including ships. They knew exactly what wood to use for what

purpose and how to cut timber to give maximum strength and flexibility. They carved decorations on many objects, and sometimes painted them with bright colors. Most of the colors have faded now, but enough survive to give an idea of the original effect.

> Twisted gold wire forms heart-shaped patterns

Plate shears for

cutting sheet metal



of gold

Modern

casting

This gold brooch from Hornelund in Denmark was made from a lead die. The jeweler pressed the die into a sheet of gold to create a pattern. Then he decorated the surface with gold wire and blobs or granules of gold. Only the richest chieftains or kings could afford such a beautiful brooch.

Molding iron for making grooves

or patterns on planks



Lead die from Viborg, Denmark, used for making precious metal brooches like the Hornelund brooch

One of three heart-shaped loops made of strands of twisted gold wire

> Plant decoration shows influences from western Europe, but the technique is purely Scandinavian



MAKING DRAGONS

Bronze was heated in a crucible over a fire until it melted. Then the smith poured it into the stone mold (far right). When the metal cooled, he lifted out a fine casting like this dragon head, which may have decorated a fancy box. A stone mold like the one shown here could be used over and over again. Many brooches and dress pins (pp. 48-49) were cast in similar molds.



for making bronze dragon heads from Birka, Sweden









Jewelry

The vikings loved bright ornaments. Their metalworkers were highly skilled at the intricate decoration of jewelry. Both men and women wore brooches, necklaces, finger-rings, and arm-bands (like bracelets). Wearing gold and silver jewelry was a sign of wealth and prestige. After a successful raid, a king might reward a brave warrior by giving him a prize piece. Bronze didn't shine as brilliantly as gold, but it was less expensive. Pewter, a mixture of silver and other metals, was cheaper still. The poorest Vikings carved their own simple pins and fasteners from animal bones left over after cooking.

Colored glass, jet, and amber were all made into pendants, beads, and fingerrings. Vikings also picked up fashions in jewelry from other countries and changed them to suit their own style.

SILVER ARM-BAND

This massive arm-band was found on the island of Fyn, Denmark. It is solid silver and must have weighed heavily on the arm. The surface is cut by deep, wavy grooves and punched with tiny rings and dotted lines. Four rows of beads decorate the center. They look as if they were added separately, but the whole piece was made in a mold (p. 42).

RECYCLING

Vikings who settled abroad took their jewelry styles with them. This gold arm-band was made in Ireland. Vikings raided many Irish monasteries in search of precious metals. Sacred books and objects often had mounts made of gold and silver, which they ripped out and carried away. Later, smiths would melt the metals down and turn them into jewelry.

Gold wires of different thicknesses coiled together

SILVER SPIRAL

Spiral arm-bands could be worn high on the upper arm.
They were only popular in Denmark, and were imported from the Volga area of Russia. This fine silver ring was found near Vejle in Jutland, Denmark.

IN ALL HIS FINERY

This tough Viking is wearing every imaginable kind of jewelry. His bulging biceps are being squeezed by spiral armbands in the form of snakes. But in many details, this old drawing is pure fantasy.

THOR'S HAMMER

Thor's hammer (pp. 7, 53) was often worn as a pendant, just like the Christian cross (right). Here animal heads at the ends of the chain bite the ring from which the hammer hangs.

SILVER CROSS

Grooves are filled with niello, a black

compound, to make

details stand out

Chain of fine

silver wires

linked together

as if they were

knitted

Animal

An open, leafy pattern decorates this silver Christian cross. The cross and chain were found in Bonderup, Denmark. They were probably made in about 1050.



47 Continued on next page

Brooches

Clasps and brooches were often lavishly decorated. But they weren't just for show. All Vikings wore brooches to hold their clothes in place. Women usually had two oval brooches to fasten their overdresses. Men held their cloaks together with a single brooch on the right shoulder. In this way, the right arm—the sword arm—was always free. Certain styles, such as oval and trefoil brooches, were popular all over the Viking world. Others, like the box brooches from Gotland, were only fashionable in certain areas.

One of four squatting human figures made of gold



Gotland

Side view of bronze

box brooch from



MEN'S HEADS Tin-coated

The tips of this brooch from Ĥøm in Denmark are decorated with three men's heads. Each face has staring eyes, a neat beard, and a long mustache. Brooches like this were first made in the British Isles. The Vikings liked them so much they made their own.

> Head of slender animal

Hair

Long

mustache

BOX BROOCH

Head of gripping beast

Box brooches were shaped like drums. The magnificent brooch on the left comes from Mårtens on the island of Gotland, Sweden. A very wealthy woman wore it to fasten her cloak. The base is made of cast bronze, but the surface glitters with gold and silver.

Heads covered

in gold

Reard

ring and pin

Top view of Mårtens box brooch



Back view

GRIPPING BEASTS

Four gripping beasts (p. 37) writhe across this silver brooch made in Denmark. It was found at the site of Nonnebakken, one of the great Viking forts (pp. 22-23).



URNES AGAIN

The Urnes art style featured a snaky animal twisting and turning in dynamic coils (p. 36) It was the most popular decoration for 11th-century brooches, like this bronze one from Roskilde, Denmark.

SHAPED LIKE CLOVER LEAVES

Trefoil brooches have three lobes. In the 9th and 10th centuries, women wore them to fasten their shawls. The finest ones were made of highly decorated gold and silver. Poorer women had simpler brooches, mass-produced in bronze or pewter. The trefoil style was borrowed from the Carolingian Empire to the south of Scandinavia, in what is now France and Germany.

THE PITNEY BROOCH

The Urnes art style was very popular in England and Ireland during the reign of Cnut the Great (1016–35). This beautiful gold brooch in the Urnes style was found at Pitney in Somerset, England.

Long pin would have been stuck through the cloak

Bronze pin, possibly from a brooch, in Irish style but found in Norway





Games, music, and stories

 Λ feast was a time to relax. After they had eaten their fill, Vikings played games, told stories, and listened to music. Kings had their own poets, called scalds, who entertained guests and praised the king. Stories and poems were told from memory and passed down from father to son. People knew all the exciting episodes by heart. Popular legends like Thor's fishing trip were often carved on stone or wood (pp. 58–59).

Jesters and jugglers often amused the guests with tricks and funny dances. Some games were played on elaborate boards with beautifully carved pieces. Others were scratched on wood or stone, and broken pieces of pottery or scraps of bone were used as counters. Many outdoor pastimes were the same as today. During the long winters, Vikings went skiing, sledding,

and skating (p. 40). In the summer, they fished, swam, and went boating in the

cold rivers and fjords.



HORSE FIGHTING

These Icelandic ponies are fighting in the wild. Vikings enjoyed setting up fights between prize stallions (male horses). It was a serious matter, with bets laid on the winner. Horse-fighting may have played a part in religious feasts and ceremonies. The . Vikings may have thought the winning horse was a special favorite of the gods.

Carved human head Carved border decoration in the Borre art style



Blow here

BONE FLUTE A Swedish Viking made this flute by cutting holes in a sheep's leg bone. He or she played it like a recorder, by blowing through one end. Covering the finger holes produced different notes

Fingers cover the bottom holes



BALLINDERRY BOARD A popular Viking board game was hneftafl. One player used his eight pieces to protect the king from the other player, who had 16 pieces. This wooden board from Ballinderry, Ireland, may have been used for hneftafl. The central hole could have held the king.

the board's 49 holes

piece from Roholte, Denmark

Amber gaming

DANCING GOD

SWEET HARP

In rich households,

musicians played the harp or lyre to

accompany stories

were also avid

singers would perform at feasts,

and the whole

assembly might join in a ballad or a

singers. Talented

and poems. Vikings

This silver figure from Sweden may be a dancing god. He is carrying a sword in one hand and a stave or spear in the other. Dancing was popular after feasts and played a part in religious ceremonies. Some dances were slow and graceful. In the wilder ones, the dancers leaped around violently. After the coming of Christianity (pp. 62-63), priests tried to stop dancing altogether.

FIGURES OF FUN

Gaming pieces could be simple counters or little human figures. This amber man (far right) may have been the king in a game of hneftafl. He is holding his beard in both hands.







HIS LIPS ARE SEALED

Loki was part god and part devil. He could change his shape, and was always getting into mischief. In one story, Loki made a bet with a dwarf that he was a better metalworker. While the dwarf was heating up the furnace with bellows, Loki tried to distract him by turning into a fly and stinging him. But the dwarf won the bet anyway. To punish Loki and keep him quiet, he sewed his lips together. This stone bellows-shield shows Loki with his lips sewn up.

THOR'S HAMMER

Silver Thor's

hammer from

Denmark

Thor was popular with peasants and farmers. He rode through the sky in a chariot pulled by goats. There are many stories of his battles against evil giants and monsters, which he clubbed to death with his mighty hammer (p. 7).

Dead warrion

A GIANT TAKES A BRIDE In one story, the giant Thrym

stole Thor's hammer. He said he would only give it back if he could marry Freyja. So Thor dressed up as Freyja and went to the ceremony. He nearly gave himself away by drinking too much! When Thrym brought out the hammer to bless the bride, Thor grabbed it and killed him and all the giant guests.



A HERO'S WELCOME

The Valkyries were warrior women who searched the battlefields for dead heroes. They carried warriors who had died bravely to Valhalla, the Viking heaven. Here Odin welcomed the dead heroes, joining them in feasts in the great hall every evening.

Curved roof of Valhalla

Valkyrie (left) and a man with an ax (right)

Valkyrie with drinking horn greets a dead hero

Runic inscription.

Sail and rigging

PICTURES OF VALHALLA

A hero arrives in Valhalla on this picture stone from Gotland (p. 58). He is riding Odin's eight-legged horse, Sleipnir. A Valkyrie holds up a drinking horn to welcome him. Under the curved roof of Valhalla, another Valkyrie gives a drinking horn to a man with an ax and a dog.



WATERFALL OF THE GODS In Iceland, gods were worshiped at Godafoss, which means waterfall of the gods.

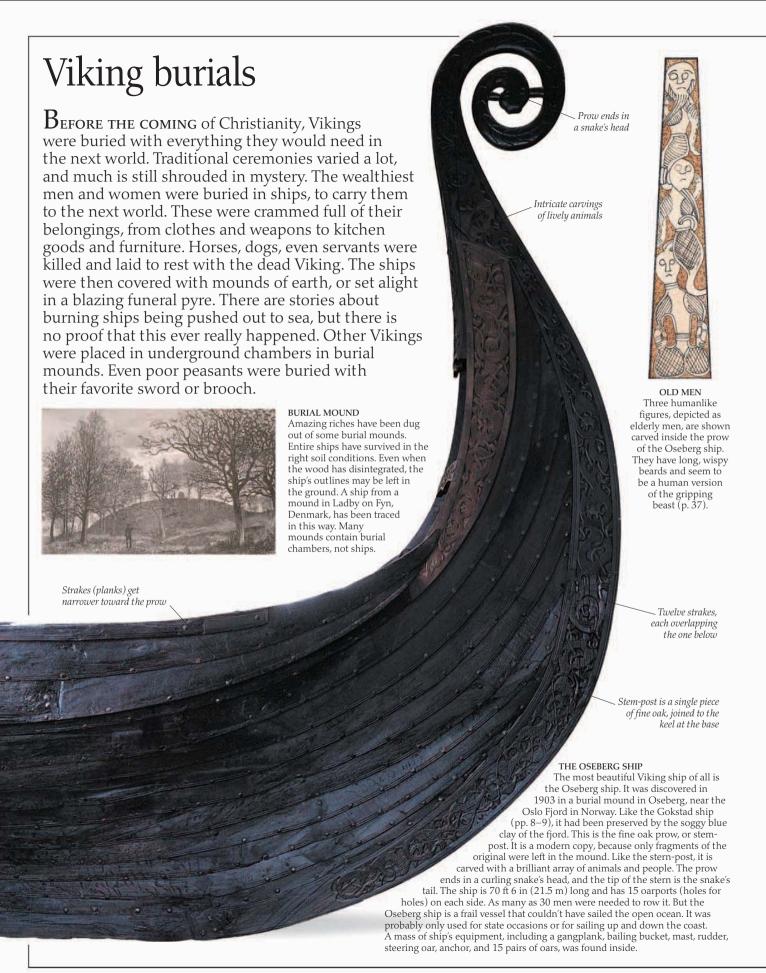
Hero riding the eight-legged horse Sleipnir arrives in Valhalla

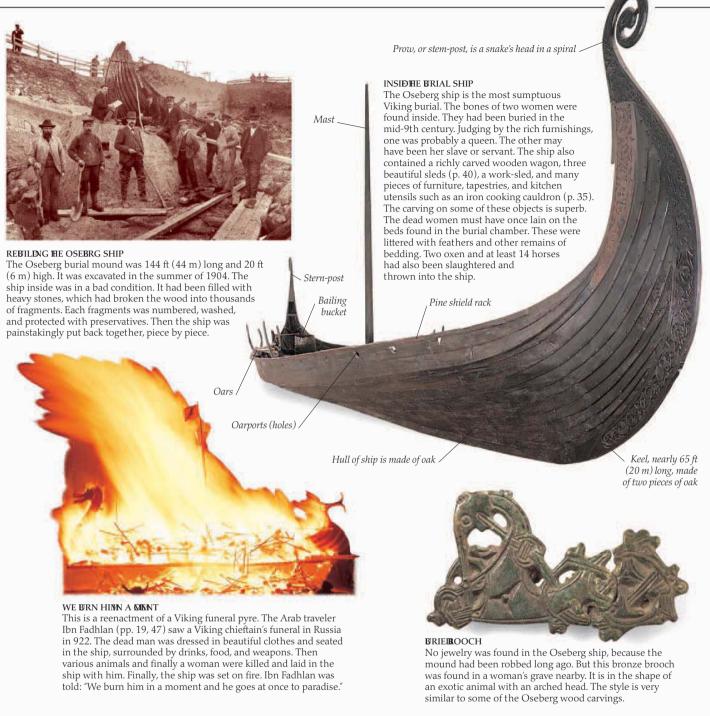


TEARS OF GOLD

Freyja married a god named Od, who left her. All the tears she wept for him turned to gold. In this romantic picture, she is searching the sky for him in a chariot pulled by cats.

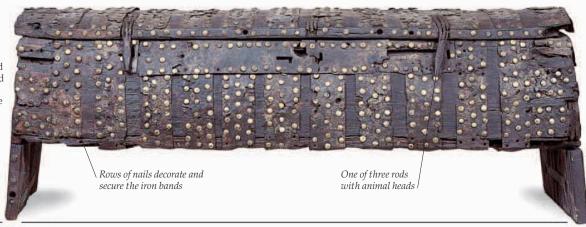
Ship full of armed warriors





B'RIAL CHEST

The burial chamber of the Oseberg ship contained the fragments of many wooden chests. This is the best preserved one. It is made of oak and decorated with broad iron bands. The elaborate locking system includes three iron rods that end in animal heads. The chest was full of tools, which the dead woman may have needed to repair her vehicles in the next world.

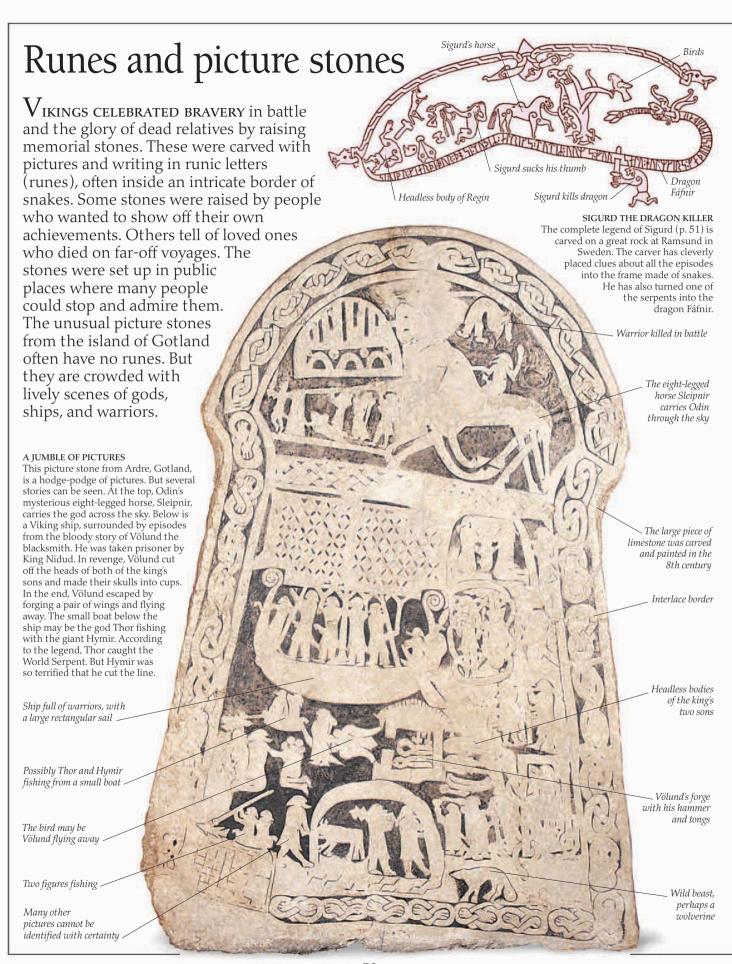


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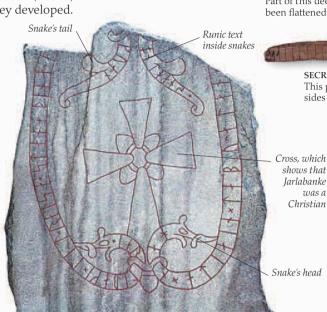






Writing in runes

Runes were easy to carve in stone or wood, with straight or diagonal lines. The basic alphabet had 16 runes. Runes were still used in Scandinavia well into the Middle Ages. The calendar stave from Sweden (above) shows how they developed.



Medieval calendar stave (staff) carved with 657 different symbols

_ Runes begin: "Hart's horn..

INSCRIBED ANTLER

Bills, accounts, even love messages were written in runes on sticks.

Part of this deer's antler from Dublin, Ireland, has been flattened to make a space for an inscription.

Secret runes that have not yet been deciphered

SECRET RUNES FROM GREENLAND

This pine stick from around 1000 has the runic alphabet on one side. The other two sides are carved with secret and magical runes. No one knows what they mean.



THORFAST'S COMB

Everyday objects were sometimes labelled in runes to declare their owner or maker. The runes on this comb case say: "Thorfast made a good comb."

PNP PR P*+ 1 + YM BYN

FUTHARK

The basic runic alphabet was called *futhark*, after the first six letters. The first runic inscriptions, from around 200, are in a longer alphabet, with 24 characters. Around 800, the Viking alphabet with eight fewer runes was developed. Most inscriptions on stone were in normal runes. Another version of the alphabet was used for everyday messages on wood or bone.

SHOWING OFF

Jarlabanke was a wealthy 11th-century landowner who thought a lot of himself. He built a roadway over marshy land at Täby in Sweden. Then he raised four rune stones, two at each end, to remind travelers of his good deed. He also had this stone erected in the churchyard of Vallentuna, a village nearby. The runes say: "Jarlabanke had this stone raised in memory of himself in his lifetime, and made this Thing place, and alone owned the whole of this Hundred." The "Thing place" was the spot where the assembly for the district met (pp. 28–29). A Hundred was the area governed by a Thing.

SAINT PAUL'S STONE

In 1852, the end slab of a splendid tomb was found in the churchyard of St. Paul's Cathedral in London, England. The whole tomb must have been shaped like a box. This is a color painting of the great beast (p. 60) that decorates the slab. The colors are based on tiny traces of pigment found on the stone. The beast is very dynamic, twisting and turning around a smaller animal. The decoration shows that it was carved in the 11th century. The runes on the edge of the slab say: "Ginna and Toki had this stone set up." These two may have been warriors in Cnut the Great's army. Cnut became King of England in 1016 (p. 63).





The Greatest Stone monument in Scandinavia is the Jelling Stone. It was raised by King Harald Bluetooth at the royal burial place of Jelling in Jutland, Denmark. Beside the stone are two huge mounds. One of these, the North Mound, may be where Harald's parents, King Gorm and Queen Thyre, were buried in a traditional ceremony (pp. 54–57). When Harald became a Christian, he built a church next

to the mounds and had his parents reburied inside. Then he raised the Jelling Stone in their memory. The memorial also advertised his own power as king of Norway and Denmark. This a modern copy of the stone. It is a three-sided pyramid, with a long inscription on one

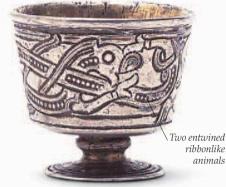
Original stone is a single, massive boulder of red-veined granite

side and pictures on

the other two.

R VER MONT

King Gorm may have worn this mount on his belt. It was found in a grave in the church in Jelling, among the reburied bones of a man, probably Gorm.



GORMSCP

This silver cup, usually known as the Jelling Cup, was found in the North Mound. It is no bigger than an eggcup. King Gorm may have drunk fruit wine from it. The cup is decorated with ribbonlike animals that gave their name to a style of Viking art, the Jellinge style.

The great beast, a wild animal with sharp claws and a long tail

The beast is entwined in the coils of a huge snake

Ribbonlike decoration in the Mammen style, a development of the Jellinge style seen on the cup, with the ribbons based on plants rather than animals

GREAT BA\$

One side of the stone is carved with a snake twisting and turning around a great animal. Their struggle may represent the battle between good and evil. The animal could be a lion, but it is often just called the great beast. It became a popular image in Viking art and can be seen on weather vanes (p. 9) and rune stones like the St. Paul's Stone (p. 59)

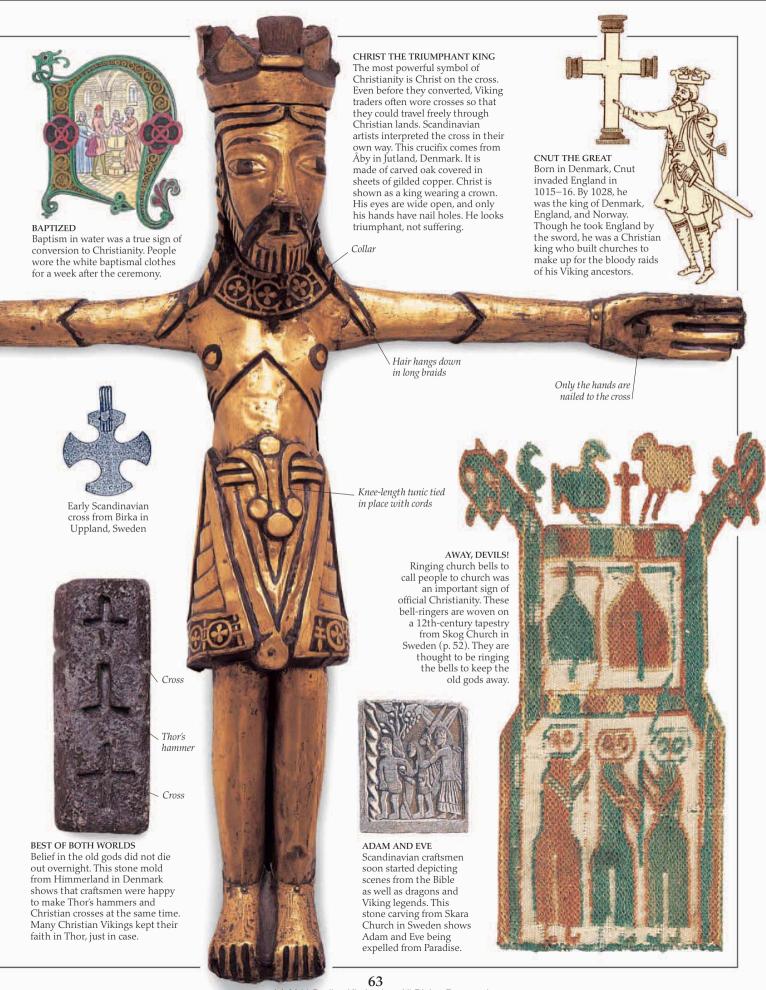
inscription on the first side, reading:
"...and Norway..."

continue from the

Runes here







Did you know?

FASCINATING FACTS

The Vikings came from all over the region that is now modern-day Scandinavia (Sweden, Norway, and Denmark). There was no unity between the Vikings: they fought each other as fiercely as they fought their enemies.

The word Viking may come from vikingr, meaning pirate, or from Viken, the area around the Oslo fjord in Norway. The Vikings were also known as norsemen (men from the north) and even ashmen (from the wood they used to build their ships).

Ornamental ax head

find new lands.

The Vikings' skill at metalworking helped their society to advance. The sharp axes they produced allowed them to cut down vast

amounts of wood for building ships and constructing houses. On the land that was left clear, the Viking farmers were able to grow plentiful crops.

In 1936, a Viking craftsman's chest was discovered in Sweden. It contained astoundingly modern-looking implements used for metalworking and carpentry, including tools fashioned in different sizes for fine and heavy work.

Because the Vikings coped so well with their surroundings, their culture flourished, and coastal settlements became overcrowded. These conditions may have encouraged the

first adventurers to set off

in their splendid ships to

In parts of Sweden, many modern farms are still called Smiss (the smith's farm), because traditionally Viking farmers were also skilled craftsmen (smiths) who spent the winter traveling the countryside peddling their wares.

Viking farmers kept their livestock (mainly cows, sheep, and pigs) inside during the harsh winter months so that humans and animals could help to keep each other warm.

Norwegian archeologists have discovered a Viking house with an ingenious cavity-wall construction: a drystone outer skin, an inner lining of vertical planks, and a gap between them stuffed with grasses and moss for insulation.

Viking families often lit their homes with torches made from bundles of marsh grass called lyssiv, or light straw, which has a central core of wicklike

white pith.

In the late 9th century, the Midlands and north of England was settled by Danes. The area became known as the Danelaw, with its own distinctive laws and customs. Place names ending in -by and -thorp are evidence of Viking colonization.

Our word Thursday has its roots in Thor, the Viking god of thunder and lightning. Friday is named after Frigg, wife of the most powerful god, Odin.

Viking swords were very distinctive, with steel blades, and iron guards and pommels inlaid with silver, copper, and brass. Their basic design, however, was copied from weapons made in Rhineland (modern Germany) to the south.

Vikings prized their swords and frequently gave them names such as Killer or Leg-biter. It was common practice for warriors to be buried with their weapons so they could use them in the afterlife.

Viking sword

Vikings on Conquest, 21st-century watercolor by Johann Brandstetter

> Early Viking raiders would arrive at a new land in the spring, spend the summer looting, then sail home for the winter.

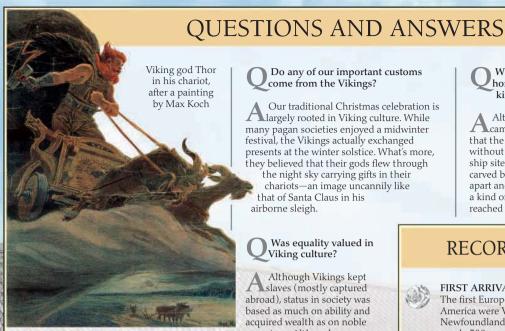
> > When Viking marauders landed, the local people would sometimes offer bribes in exchange for peace. In 911, Normandy in France was given to a Viking army under these circumstances.

> > > Viking ship by the 20th-century artist Christopher Rave

Vikings despised weakness, even in children and babies. Sickly newborns who might be a burden on the family were often thrown into the sea or left outside to perish.

Shakespeare's Hamlet was based on a character that first appeared in Gesta Danorum, a collection of ancient Viking tales. These were written down in the late 12th century by the Danish chronicler Saxo Grammaticus.

Because few people could read, it was the custom at the governing assembly for the Law Speaker to recite all the existing laws once a year.



How religious were the Viking people?

Religious faith was very important to the Vikings, since it helped them to survive in a frightening world. In their mythology, for example, the souls of those who died from sickness or old age went to a shadowy, sinister domain, while warriors who died in combat would be taken to Valhalla (heaven) to feast and engage in mock battles. Similarly, the Vikings considered the Norns-the Fates of Destiny—to be more powerful than gods and goddesses, a belief that may also have made an extremely harsh existence easier to bear.

What role did women play in Viking society?

Aside from the fact that most marriages were arranged by the couple's parents, women had a considerable amount of power and status. When their husbands were away on raids or explorations, they were left to run the farms, so they were capable and strongwilled. Once they were married, they could hold their own land. Until the Vikings converted to Christianity, a wife was free to divorce her husband at will; if she left with the children, she was entitled to half her husband's wealth. A husband who left his wife was obliged to pay her compensation. Wives of chieftains and freemen (though not of slaves) were even allowed to contribute to political and legal debates.

> Raw wool ready for spinning

Do any of our important customs come from the Vikings?

Our traditional Christmas celebration is largely rooted in Viking culture. While many pagan societies enjoyed a midwinter festival, the Vikings actually exchanged presents at the winter solstice. What's more, they believed that their gods flew through

the night sky carrying gifts in their chariots-an image uncannily like that of Santa Claus in his airborne sleigh.

When Viking adventurers left their homes for months at a time, in what kind of conditions did they live?

Although life at sea and in temporary camps was fairly primitive, it appears that the Vikings were not completely without comfort. From the Oseberg burialship site, archeologists unearthed a large carved bed clearly designed to be taken apart and stored on board ship for use as a kind of camp bed when the Vikings reached a new settlement.

Was equality valued in Viking culture?

Although Vikings kept slaves (mostly captured abroad), status in society was based as much on ability and acquired wealth as on noble parentage. Although a son could inherit a lofty position from his father, a warrior of lowly birth could improve his social standing considerably just by acquiring wealth and impressive plunder on a succession of foreign raids.

Viking

woman

spinning



The first Europeans to colonize North America were Vikings, who landed in Newfoundland, Canada, in about 1001, nearly 500 years before Christopher Columbus made his famous journey.

RECORD BREAKERS



FROSTY WELCOME

Vikings were also the first to settle in Iceland, arriving in 870. By 930, the fertile green coastal areas were densely populated.



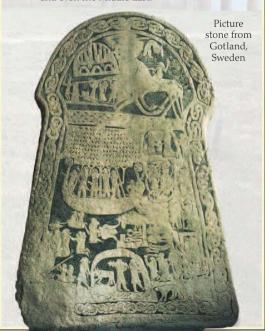
BURIAL GROUND

The Viking cemetery in Lindholm Høje, Denmark, is one of the largest in the world, containing almost 700 graves, all marked with large stones.



PIONEERING TRADERS

It was the Vikings who opened up many important international trades routes to places such as western Russia, the Mediterranean coast, northern India, and even the Middle East.



Who's who?

 ${
m T}_{
m HE}$ leading figures in the Viking world tend to fall into one of three categories: rulers (at home and abroad), who held the power and made the laws; adventurers, who set off to find and colonize new lands; and writers and historians, who laid the groundwork for our knowledge of this remarkable civilization.



King Harald Bluetooth's Jelling Stone

RULERS

King Guthrum

Danish ruler of East Anglia in the latter part of the 9th century. In 878, Guthrum signed the Treaty of Wedmore with Alfred the Great. This treaty divided England into two, and made Guthrum overlord of the northern lands under Alfred's theoretical control. The area controlled by the Danes became known as Danelaw.

ERIC BLOODAXE

King of Norway during the 930s, Eric was expelled for extreme cruelty. He is thought to have murdered his seven brothers. Eric Bloodaxe later became the last Viking ruler of Northumbria in England.

• KING HARALD BLUETOOTH

Ruler of Denmark during the 10th century, Harald Bluetooth converted his country to Christianity in the 960s. A great innovator, he commissioned the first bridge in Scandinavia and the biggest and most splendid of Viking memorial stones at Jelling, in Jutland. Harald's parents, King Gorm and Queen Thyre, are thought to be buried at Jelling. Queen Alexandra, the Danish wife of the 20th-century British king Edward VII, is thought to have been descended from Harald Bluetooth.

King Svein Forkbeard

Danish leader who besieged London in 994 until he was paid by King Ethelred II to withdraw. This payment was known as the Danegeld. In 1013, Svein Forkbeard returned, launching a successful invasion of England, and seizing the throne. He died in 1014 and was succeeded by his son Cnut.



Gold brooch from the time of King Cnut

KING CNUT (CANUTE)

Born in Denmark to Svein Forkbeard, the Christian King Cnut inherited his father's crowns in 1014, but was deposed in England by Saxon nobles who restored the previous king, Ethelred. When Ethelred died two years later, however, Cnut fought his son Edmund Ironside for the throne. Eventually Cnut and Edmund agreed to divide the country between them. However, Edmund died soon after, and Cnut became sole English king, as well as king of Denmark and, from 1028, of Norway. His reign was stable and prosperous, and he died in 1035, after which date his empire collapsed.

 KING OLAF HARALDSSON (OLAF II) Ruler of Norway from 1015, Olaf II completed the process begun by his predecessor, Olaf I, and made Norway a Christian country in around 1024. He was killed in battle by his

own chieftains, who were backed by King Cnut of Denmark. In 1164, he was declared his country's patron saint.

King Harald Hardrada

Harald III of Norway, known as Harald Hardrada, led a large Viking army that invaded Northumbria in England in September 1066. This army was defeated by the English king, Harold II, who was himself defeated by William the Conqueror at the Battle of Hastings in October of the same year.

• WILLIAM THE CONQUEROR

Leader of the Norman conquest of England in 1066, William was descended directly from Vikings who, under the chieftain Rollo, settled in northwestern France during the first part of the 10th century.



William the Conqueror in a manuscript illustration





ADVENTURERS

• Björn Jarnsitha

Early Viking explorer who, with his companion Hasting, spent three years raiding lands far to the south of his homeland, including Spain, North Africa, France, and Italy.

• RAGNAR

Viking chieftain who conquered Paris, France, in 845. In order to reclaim the city, the French king, Charles the Bald, had to bribe Ragnar and his men with silver.

Rollo

Ninth-century Viking chieftain who, with his followers, founded a settlement around present-day Rouen in France. As a result, this area became known as Normandy (Land of the Northmen).

• IVAR THE BONELESS

Early Viking invader who landed in England in 865, conquering East Anglia and murdering its king, Edmund, in 869 when he refused to renounce Christianity. Edmund was later canonized (made a saint), his shrine at Bury St. Edmunds becoming a place of pilgrimage.

• Erik the Red

Norwegian chieftain living in Iceland who, in 982, was accused of murder and banished. Setting off to discover new territory, he established a Norse settlement in Greenland in around 985 and encouraged hundreds of Icelanders to settle there.



Rune stone carved by Viking settlers at Kingiktorsuak, Greenland

• Leif the Lucky (Leif Eriksson)

Viking explorer and son of Erik the Red, Leif is thought to be the first European to set foot in North America, landing at the northern tip of present-day Newfoundland, Canada, in about 1001. The Vikings called the new place Vinland, which means Land of Wine.

WRITERS AND HISTORIANS

• IBN FADHLAN

Tenth-century Arab writer who famously described the Vikings as "the filthiest of God's creatures." He also left fascinating descriptions of the precious jewelry worn by Viking women and the elaborate pyre he witnessed for the funeral of one of their chieftains.



One of Jarlabanke's four rune stones at the roadway he built in Täby, Sweden

• SAXO GRAMMATICUS

Danish chronicler and storyteller who lived between around 1150 and 1220. One of the stories in his *Gesta Danorum*, a collection of traditional Viking folk tales, is thought to have inspired *Hamlet*, William Shakespeare's play about a Danish prince.

• JARLABANKE

Wealthy Swedish landowner and selfpromoter who lived during the 11th century. The elaborate rune stones he erected in his own honour provide us with unique details about the region where he lived (called a Hundred) and the local assembly (or Thing) that governed it.

King Alfred the Great

An Anglo-Saxon king who defeated the Vikings in England, Alfred contributed greatly to our knowledge of Viking history by instigating the *Anglo-Saxon Chronicle*. This is a detailed history of England that covers the period of Viking invasion and domination.

Statue of Alfred the Great, which stands in his birthplace of Wantage, Oxfordshire



Find out more

Many museums worldwide have exhibits on Viking culture. The best ones, however, are usually found in the places where the Vikings lived and in the lands they conquered. Specialized museums on archeology (the study of human antiquities) or anthropology (the study of people) are likely to have the most exhibits on display, and they may also have good libraries and bookstores with further information. One such museum is the Viking Ship Museum in Roskilde, Denmark. Visitors can view five types of ship, which all sank in around 1000 and were excavated in 1962. Nearby are the Roskilde Museum, which is full of Viking documents and artifacts, and the Lejre Historico-Archaeological Research Center, which has a re-created iron-age village, complete with gardens, workshops, and animals.



ILLUMINATING THE PAST

Like many up-to-date visitor facilities, the Roskilde Museum uses imaginative displays and models to bring the culture of the ancient world to life. Roskilde was the original capital of Denmark.

RINGS OF GOLD

Because the Vikings were so well traveled, many large museums have impressive displays of their artifacts and jewelry. These rare gold rings come from the British Museum in London.





VINLAND UNEARTHED

Although Vikings landed in Newfoundland, Canada, during the 10th century, it was not until the 1960s that the site of their settlement was discovered at a fishing village called L'Anse aux Meadows. (The name is an anglicized version of the French L'Anse-aux-Méduses-Jellyfish Bay.) Viking houses here, like those in Iceland, had timber frames covered with layers of turf.

Places to visit

L'ANSE AUX MEADOWS, NEWFOUNDLAND, CANADA

A reconstruction of three buildings at this Viking settlement site in North America, which is also a UNESCO World Heritage Site. Visitors can see:

- details about the archeological discovery of the settlement
- exhibits that link Viking artifacts found there with everyday Viking life.

VIKING SHIP MUSEUM, ROSKILDE, DENMARK

Located right in the harbor, this museum was built in 1969 specifically to display the ships discovered in the Roskilde Fjord. Of particular interest are:

- the displays that focus on the Vikings in Ireland, and the meeting of the two cultures
- the museum shop, which sells copies of Viking jewelry and domestic objects.

TRELLEBORG VIKING FORTRESS, WEST ZEALAND, DENMARK

An ancient ring fortress constructed about 980, Trelleborg is situated in beautiful countryside and includes among its attractions:

- a museum in which items excavated at the site are displayed, and exhibitions are mounted to provide information about the fortress and how it was used
- activities and shows—many of them interactive-that offer an intimate look at who the Vikings were and how they lived.

LOFOTR VIKING MUSEUM, BORG, NORTHERN NORWAY

An accurate reconstruction of a Viking chieftain's homestead, this living museum is the result of years of archeological excavation and research. On display are:

- the objects and artifacts displayed in the house (many unearthed on the site) that connect the Vikings with southern Europe
- reconstructed Viking ships.

BRITISH MUSEUM, LONDON, UK

In both the Europe 300–1100 and Money galleries there are outstanding Viking collections. These include:

- the Cuerdale hoard of over 8,500 objects, such as coins and hack silver
- the Goldsborough hoard, including a large thistle brooch
- a whalebone plaque adorned with horsehead images and used for smoothing linen.

JORVIK VIKING CENTRE, YORK, UK

Sitting on the site of the ongoing Coppergate Viking excavations, this museum attempts to re-create the sights, sounds, and smells of the Viking era. Among its key features are:

- interactive rides where visitors are taken through re-created homes and businesses from the 10th century
 - an artifacts gallery that shows visitors what the objects looked like in Viking times, and how they looked when they were first found by archeologists.

Pendant showing the goddess Freya, in the Museum of National Antiquities, Stockholm, Sweden





The images on this 11th-century picture stone illustrate ancient Norse legends about the god Odin and members of his family. The stone is in the Museum of National Antiquities in Stockholm, Sweden.

TREASURES FROM ABROAD

Although this graceful glass vessel (in the collection of the Museum of National Antiquities in Stockholm) was found in a Viking grave in Scandinavia, it would originally have come from an area farther south, in present-day Germany.

USEFUL WEBSITES

- Jorvik Viking Centre website www.jorvik-viking-centre.co.uk
- Viking website of the BBC, featuring games, essays, and a tour Musof a Viking farm www.bbc.co.uk/history/ancient/viking
- Website of The Vikings, a re-enactment society with
- members in the United States and Europe www.vikingsna.org
- Viking website at the British Museum www.britishmuseum.org/explore/online_tours/ europe/the_vikings/the_vikings.aspx
- Viking Ship Museum, Roskilde www.vikingeskibsmuseet.dk
- Vikings: the North Atlantic Saga, a virtual exhibit created by the Smithsonian's Museum of Natural History www.mnh.si.edu/viking/start/html



Glossary

ADZE Arch-bladed cutting tool.

ALTHING Governing assembly of all Iceland (*see also* THING).

ANVIL Solid block, usually made of iron, on which metal is worked by a smith (*see also* SMITH).

ARD Basic plow that breaks up the ground with a pointed blade.

AUGER Handled tool for boring holes in wood.

BALDRIC Leather sword strap, usually worn diagonally across the body.

BARBARIAN Coarse, wild, or uncultured person.

BOSS Projecting knob or stud.

BOW Prow, or front section, of a ship or a boat (opposite of STERN).

BYRE Rudimentary shed for cattle.

CASKET Small box or chest, often ornamental, intended for valuables or religious relics.

CAULDRON Large pot made from iron or stone. Vikings cooked in cauldrons set over a fire or suspended from a roof beam.



CAULKING Material (often tarred wool or loose rope fibers) stuffed between the strakes of a ship to act as waterproofing (see also STRAKE).

CHAIN MAIL Protective armor made from small, interlaced iron rings.

CLINKER Boat-building technique in which each external strake overlaps the one below (*see also* STRAKE).

CRAMPONS Iron studs nailed to the hooves of Viking horses to prevent them from slipping on icy ground.

Ard

CRUCIBLE Pot in which metal is melted.

DAUB Clay or dung plastered over wattle as waterproofing to form a wattle-and-daub wall, fence, or roof (*see also* WATTLE).

DEMOCRACY System of government in which the people being governed have a voice, usually through elected representatives.

DIE Engraved stamp used for making (also called striking) coins, medals, or brooches.

FIGUREHEAD Ornamental carving (sometimes detachable) on the prow of a ship (*see also* PROW).

FINIAL Decorative projection extending from the apex of a roof or a gable.

FJORD Long narrow arm of ocean or sea stretching inland, often between high cliffs.

FULLER Central groove cut into a sword's blade to make it lighter and more flexible.

FUTHARK Basic Scandinavian runic alphabet, named after its first six letters—the "th" sound counts as one letter (*see also* RUNE).

GANGPLANK Movable plank used for walking on or off a boat.

GUARD Cross-piece between a sword's hilt and blade that protects the user's hand (*see also* HILT).

GUNWALE (GUNNEL) Upper edge of ship's side; the top strake (*see also* STRAKE).

HACK SILVER

Chopped up pieces of jewelry and coins used as currency.

HILT Handle of a sword or dagger.

HNEFTAFL Viking game played with counters on a wooden board.

Piece of hack silver

HOARD Stash of buried Viking treasure that may include jewelry, coins, and other items made from precious metal.

HULL Body or frame of a ship.

JARL Earl, noble, or chieftain; one of the three classes in Viking society (*see also* KARL, THRALL).

KARL Freeman (as opposed to slave); largest of the three classes in Viking society. Farmers, traders, craftsmen, warriors, and major landowners were all karls (see also JARL, THRALL).

Viking longship

KEEL Lengthwise timber along the base of a ship on which the framework is constructed.

Ship's keel

KEELSON Line of timber fastening a ship's floor timbers to its keel.

LONGSHIP Ship powered by lines of rowers and a single, rectangular sail.

MAST Timber or iron pole that supports a ship's sails.

MOOR To attach a ship to a fixed structure or object.

NIELLO Black metallic compound of sulfur with silver, lead, or copper. Niello is used for filling engraved lines in silver and other metals. OARPORT One of the holes in the side of STAVE Upright wooden plank, post, or log a longship through which the oars project. used in building construction. ØRTOGAR Viking unit of weight made up of three smaller units called øre, and equal to STAVE CHURCH Wooden church made of wooden planks (staves) set upright in the about 1/4 oz (8 g). ground. Stave churches were built across PIN BEATER Slender wooden rod used in Scandinavia after the arrival of Christianity. weaving to straighten threads and smooth the cloth. STEM-POST An upright post at the prow, or front, of a ship. PROW Bow, or front section, of a ship or boat (opposite of STERN). STERN Rear section of a ship or a boat (opposite of BOW or PROW). PURLIN Horizontal beam supporting the STERN-POST An upright post at the stern, main rafters in a typical Viking house. or rear, of a ship. QUERN Small, round stone mill for grinding grain into flour. STRAKE Horizontal timber plank used in the construction of ships. RAMPART Defensive mound of earth and turf supported by a wooden framework. TANG Metal spike on a blade or a bit, designed to slot into a wooden handle. RIGGING Arrangement of a ship's mast, The 10th-century Jelling Stone, with sails, and ropes. THING Local assembly. Every its memorial runes district was subject to the rule of RUNES Early Scandinavian letters, many its Thing, and all free men could express of which were formed by modifying Greek SPELT Early variety of wheat that or Roman characters to make them suitable opinions there (see produces particularly fine flour. for use in carving. also ALTHING). SPINDLE Small rod with tapered ends RUNE STONE Memorial stone carved with THRALL Viking used for twisting and winding the thread writing, pictures, and decorative motifs. slave (a man, in spinning. woman, or child who SCALD Viking term for a composer and is owned by another SPINDLE WHORL Round piece of clay or person in the same way as an reciter of epic poems about kings and heroes. bone attached to a spindle. The weight of the item of property, usually to do whorl helps the spindle to spin. **SCUTTLE** The action of sinking a boat or work of some kind); one of the three classes in Viking a ship deliberately. society (see also JARL, KARL). Mast Valkyrie SHINGLES Thin, overlapping wooden Shroud TILLER Horizontal bar pendant tiles used for roofing on traditional Viking houses. attached to the top of a steering oar or rudder. SHROUD Set of ropes TREFOIL Three-lobed supporting the mast on a ship. motif that was popular in **SICKLE** Handled implement Viking jewelry design, particularly with a curved blade used for on brooches. harvesting grain or VALKYRIE Female warrior in Norse trimming growth. mythology. SLED A vehicle on runners. Like Egyptian pyramid builders, WARP Lengthwise threads on woven Vikings used sleds to carry heavy cloth (see also WEFT). loads. The sleds were richly decorated, perhaps ceremonial. WATTLE Interwoven branches used to Examples of sleds have been form the basic structure of walls, fences, found in burial hoards. or roofs (see also DAUB). SMITH Metalworker, as in WEFT Crosswise threads on woven a goldsmith or tinsmith. cloth; weft threads pass over and under A blacksmith is someone the warp threads (see also WARP). who works with iron. Viking longship Oarport Tiller Hull

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