EXHIBIT C

Read Edit View history Search Wikipedia

[hide]



Featured content Wikipedia sto

Community porta Recent changes Contact page

What links here Related changes Upload file Permanent link Page information Cite this page

In other projects Wikimedia Commons

Create a book

Español taliano Svenska

Article Talk Sailboat

From Wikipedia, the free encyclopedia

See also: Sailing, Sailing ship, and Sail

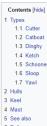


This article has multiple issues. Please help improve it or discuss these issues on the talk page. (Learn how and when to remove these template messages)

• This article includes a list of references, but its sources remain unclear because it has insufficient inline citations. (July 2016)

• This article needs additional citations for verification. (August 201

A sailboat or sailing boat is a boat propelled partly or entirely by sails smaller than a sailing ship. Distinctions in what constitutes a sailing boat and ship vary by region and maritime culture.



A typical monohuli sloop with Bermuda

7 External links Types [edit]

> Further information: Sailplai See also: List of sailing boat types

Although sailboat terminology has varied across history, many terms have specific meanings in the context of modern yachting. A great number of sailboat-types may be distinguished by size, hull configuration, keel type, purpose, number and configuration of masts, and sail plan

Popular monohull designs include:

Cutter [edit]

Main article: Cutter (boat)

The cutter is similar to a sloop with a single mast and mainsail, but generally carries the mast further aft to allow for a jib and staysail to be attached to the head stay and inner forestay, respectively. Once a common racing configuration, today it gives versatility to cruising boats, especially in allowing a small staysail to be flown from the inner stay in high winds

Main article: Cathoat

A catboat has a single mast mounted far forward and does not carry a jib. Most modern designs have only one sail, the mainsail; however, the traditional catboat could carry multiple sails from the gaff rig

Dinghy [edit]

Main article: Sailing dinghy

A dinghy is a type of small open sailboat commonly used for recreation, sail training, and tending a larger vessel. They are popular in youth sailing programs for their short LOA, simple operation and minimal maintenance. They have three (or fewer) sails: the mainsail, lib, and spinnaker

Ketch [edit] Main article: Ketch

Ketches are similar to a sloop, but there is a second shorter mast astern of the mainmast, but forward of the rudder post. The second mast is called the mizzen mast and the sail is called the mizzen sail. A ketch can also be Cutter-rigoed with two head sails.

Schooner [edit] Main article: Schoone

triangular topsails sails to be flown above their gaff sails; many modern schooners are Bermuda rigged.

Main article: Sloon

The most common modern sailboat is the sloop, which features one mast and two sails, typically a Bermuda rigged main, and a headsail. This simple configuration is very efficient for sailing into the wind

A fractional rigged sloop has its forestay attached at a point below the top of the mast, allowing the mainsail to be flattened to improve performance by raking the upper part of the mast aft by tensioning the backstay. A smaller headsail is easier for a

Yawl [edit]

Main article: Yawl

A yawl is similar to a ketch, with a shorter mizzen mast carried astern the rudderpost more for balancing the helm than propulsion.

Hulls [edit]

Main article: Hull (watercraft)



This section is written like a personal reflection, personal essay, or argumentative essay that states a Wikipedia editor's personal feelings or presents an original argument about a topic. Please help improve it by rewriting it in an encyclopedic style. (June 2017) (Learn h

Traditional sailboats are monohulis, but multi-hull catamarans and trimarans are gaining popularity. Monohull boats generally rely on ballast for stability and usually are displacement hulls. This stabilizing ballast can, in boats designed for racing, be as much as 50% of the weight of the boat, but is generally around 30%. It creates two problems; one, it gives the monohull tremendous inertia, making it less maneuverable and reducing its acceleration. Secondly, unless it has been built with buoyant foam or air tanks, if a monohull fills with water, it will sink

Multihulis rely on the geometry and the broad stance of their multiple hulis for their stability, eschewing any form of ballast. Some multihulis are designed to be as light-weight as possible while still maintaining structural integrity. They can be built with foam-filled flotation chambers and some modern trimarans are rated as unsinkable, meaning that, should every crew compartment be completely filled with water, the hull itself has sufficient buoyancy to remain afloat

A multihull optimized for light weight (at the expense of cruising amenities and storage for food and other supplies), combined with the absence of ballast can result in performance gains in terms of acceleration, top speed, and manoeuvrability

The lack of ballast makes it much easier to get a lightweight multihull on plane, reducing its wetted surface area and thus its drag. Reduced overall weight means a reduced draft, with a much reduced underwater profile. This, in turn, results directly in reduced wetted surface area and drag. Without a ballast keel, multihulls can go in shallow waters where monohulls can not

There are trade-offs, however, in multihull design. A well designed ballasted boat can recover from a capsize, even from turning over completely. Righting a multihull that has gotten upside down is difficult in any case and impossible without help unless the boat is small or carries special equipment for the purpose. Multihulls often prove more difficult to tack, since the reduced weight leads directly to reduced momentum, causing multihulls to more quickly lose speed when headed into the wind. Also, structural integrity is much easier to achieve in a one piece monohull than in a two or three piece multihull whose connecting structure must be substantial and well connected to the hulls.

All these hull types may also be manufactured as, or outfitted with, hydrofoils

Keel [edit]

All vessels have a keel, it is the backbone of the hull, in traditional construction, it is the structure upon which all else depends. Modern monocogue designs include a virtual keel. Even multihulls have keels. On a sailboat, the word "keel" is also used to refer to the area that is added to the hull to improve its lateral plane. The lateral plane is what prevents leeway and allows sailing towards the wind. This can be an external piece or a part of the hull.

Most monohulis larger than a dinghy require built-in ballast. Depending on the design of the boat, ballast may be 20 to 50 percent of the displacement. The ballast is often integrated into their keels as large masses of lead or cast iron. This secures the ballast and gets it as low as possible to improve its effectiveness. External keels are cast in the shape of the keel. A monohull's keel is made effective by a combination of weight, depth, and length Most modern monohull boats have fin keels, which are heavy and deep, but short in relation to the hull length. More traditional yachts carried a full keel which is generally half or more of the length of the boat. A recent feature is a winged

keel, which is short and shallow, but carries a lot of weight in two "wings" which run sideways from the main part of the keel. Even more recent is the concept of canting keels, designed to move the weight at the bottom of a sailboat to the upwind side, allowing the boat to carry more sails.

Multihulls, on the other hand, have minimal need for such ballast, as they depend on the geometry of their design, the wide base of their multiple hulls, for their stability. Designers of performance multihulls, such as the Open 60's, go to great lengths to reduce overall boat weight as much as possible. This leads some to comment that designing a multihull is similar to designing an aircraft

A centreboard or daggerboard is retractable lightweight keel which can be pulled up in shallow water.























This page was last edited on 28 August 2019, at 13:20 (UTC).

Text is available under the Creative Commons Altribution-ShareAlike License; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy. Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc., a non-profit organization

Privacy policy About Wikipedia Disclaimers Contact Wikipedia Developers Cookie statement Mobile view

