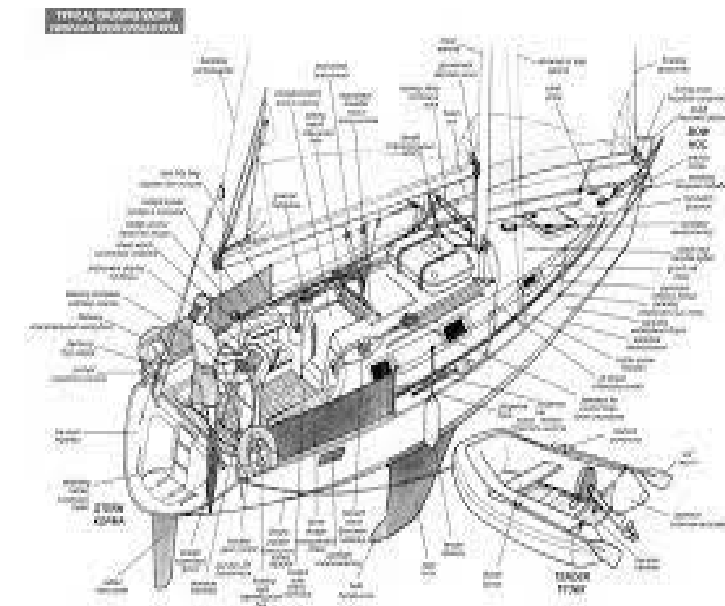
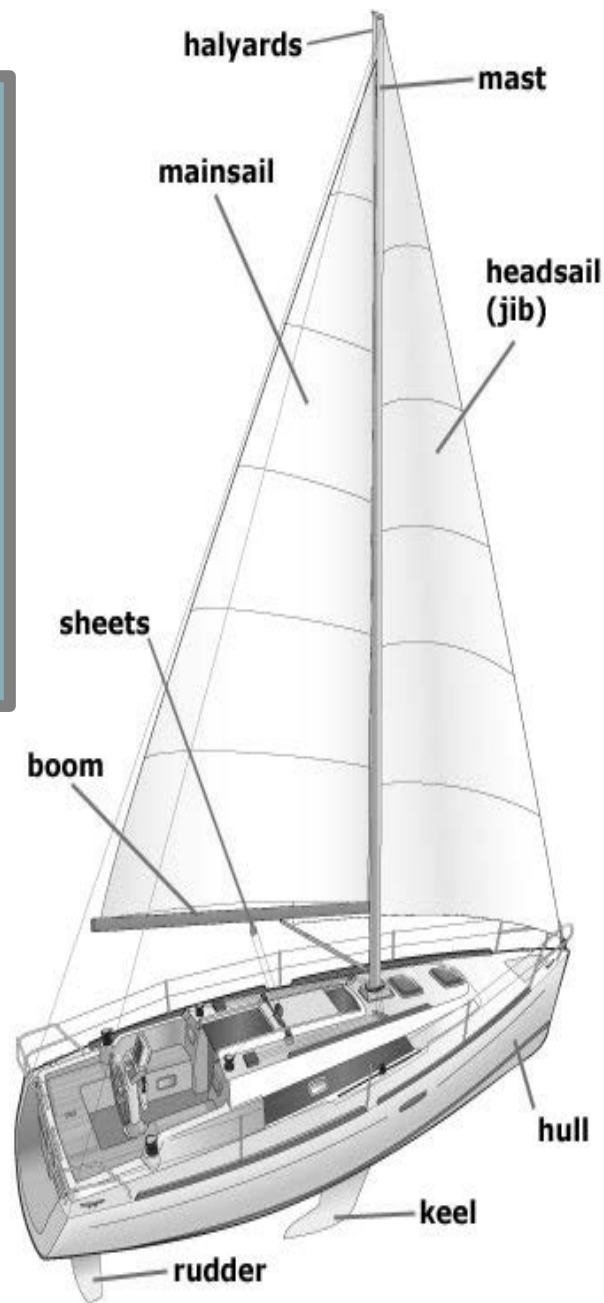


Sailing Basics in 1 hour



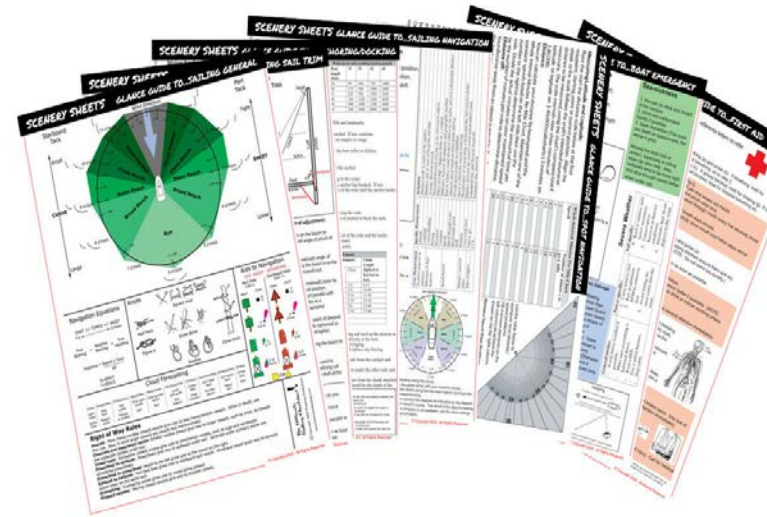
There's a lot on a boat
and even more special
names for everything.

We'll skip the details.





KEEP
CALM
AND
SAIL
ON

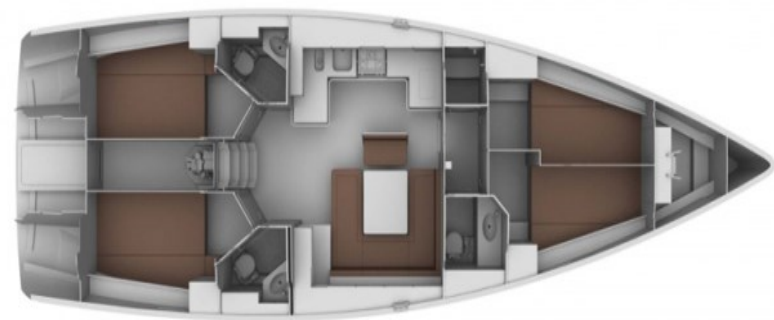


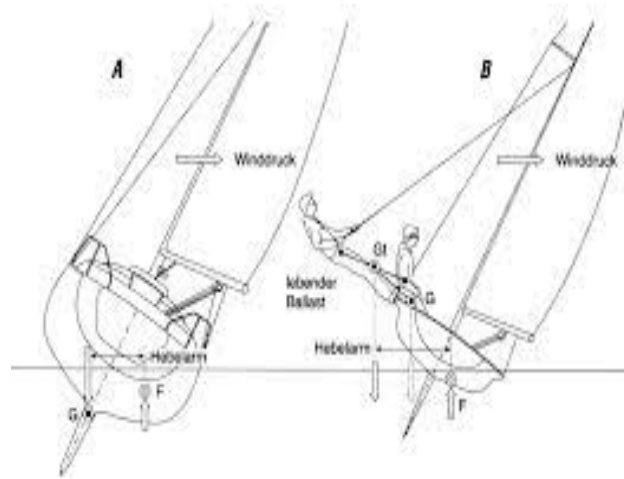
There's a cheat sheet
for everything

No need to remember
everything



OUR BOAT



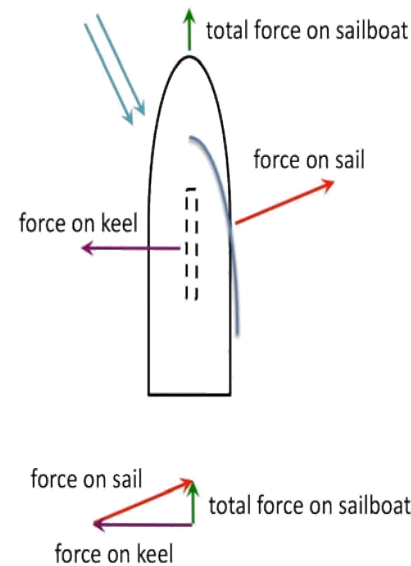
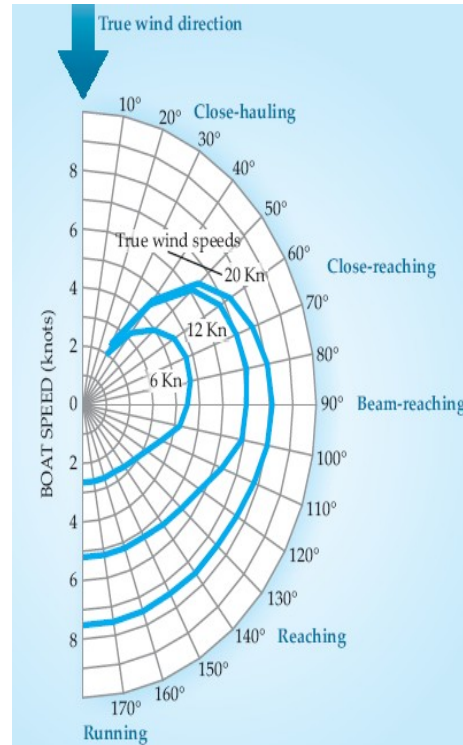


Even if a yacht is turned upside down, the keel will turn it back (unlike the dinghy, that's why this is called wet-sailing)

How does a boat sail? Pushing vs uplift*



*A boat moves either by the push of the wind (like a downwind sail catching air) or by lift, where the sail acts like an airplane wing, generating forward motion. (See next slide.)



The little green thing is pushing fwd,
but you feel the red, when going upwind

A boat can sail up to
30° against the wind

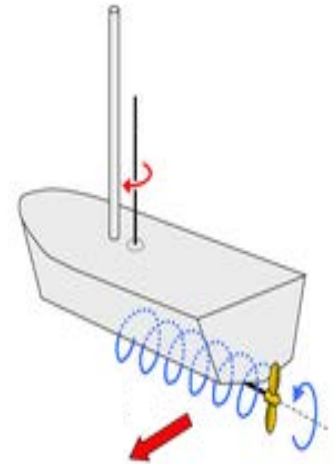
but only with the right sail and boat underneath

- Bermuda riggs can do 30°
- Square riggs can do ~80° only

Moving without sail

Possible, but watch out when reversing.

- ▶ If you switch between Forward and Reverse, give the gearbox a break, so it doesn't break..
- ▶ If you go backwards, the ruder is pretty useless as not much water of the thrust passes it
- ▶ The propeller however will make the boat wander to the side (the prop feels like a wheel rolling on the ground)



You can't see airflow or attachment when you look at a sail, but you can get valuable information from telltales, speed stripes and a Windex.

Windex points in direction of the wind revealing angle of attack

Trimming

In principle we have 2 WINGS that need to fly

- A wing is a 3D object and a boat has various means for trimming.
- Rule 1: The jib is always a bit more open than the main sail
- Rule 2: Check the speed strips. They should be horizontal (outer more important than inner)

Good to know: the top 1/3 of the sail is where the things happen and we have a cheat sheet

Speed-stripes

How to operate a winch



ALL winches work **CLOCKWISE**

Most winches are 2 speed, depending on direction

- ▶ Beginning from the bottom of the drum, wrap the rope 3 to 4 times around the barrel of the winch in a clockwise direction.
- ▶ 1 turn above the hook
- ▶ and a full round in the jamming mechanism
- ▶ Insert the winch handle into the top of the winch and use it to wind the rope tight.

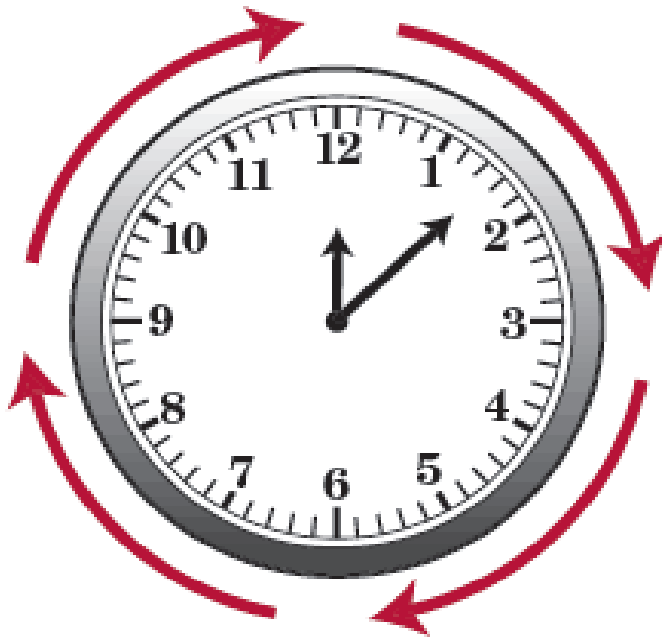


Figure 8 Knot



Bowline



Clove Hitch



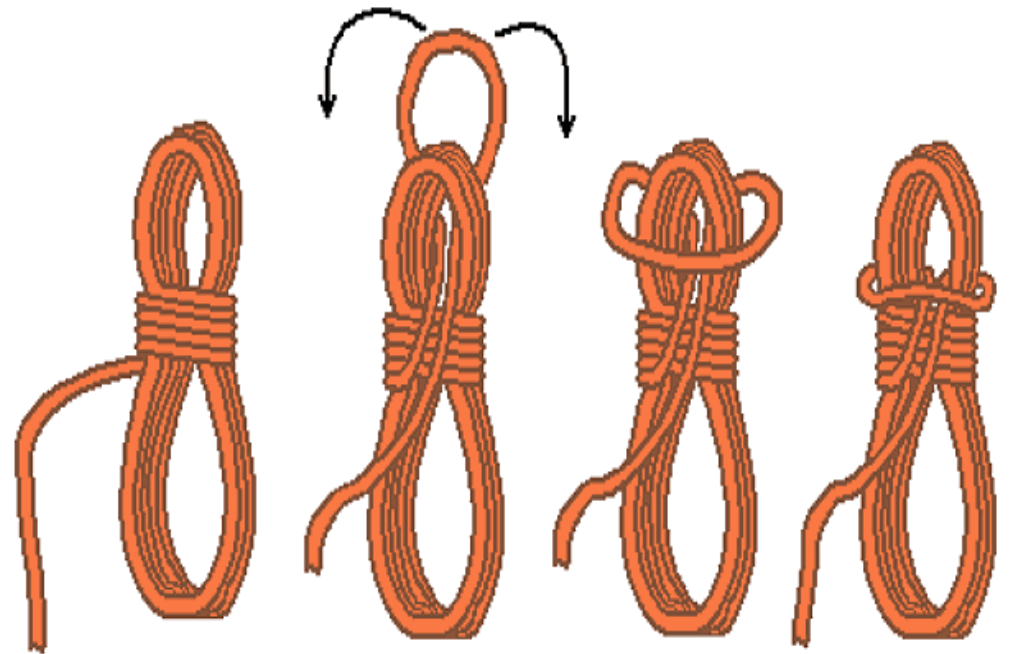
Reef bend

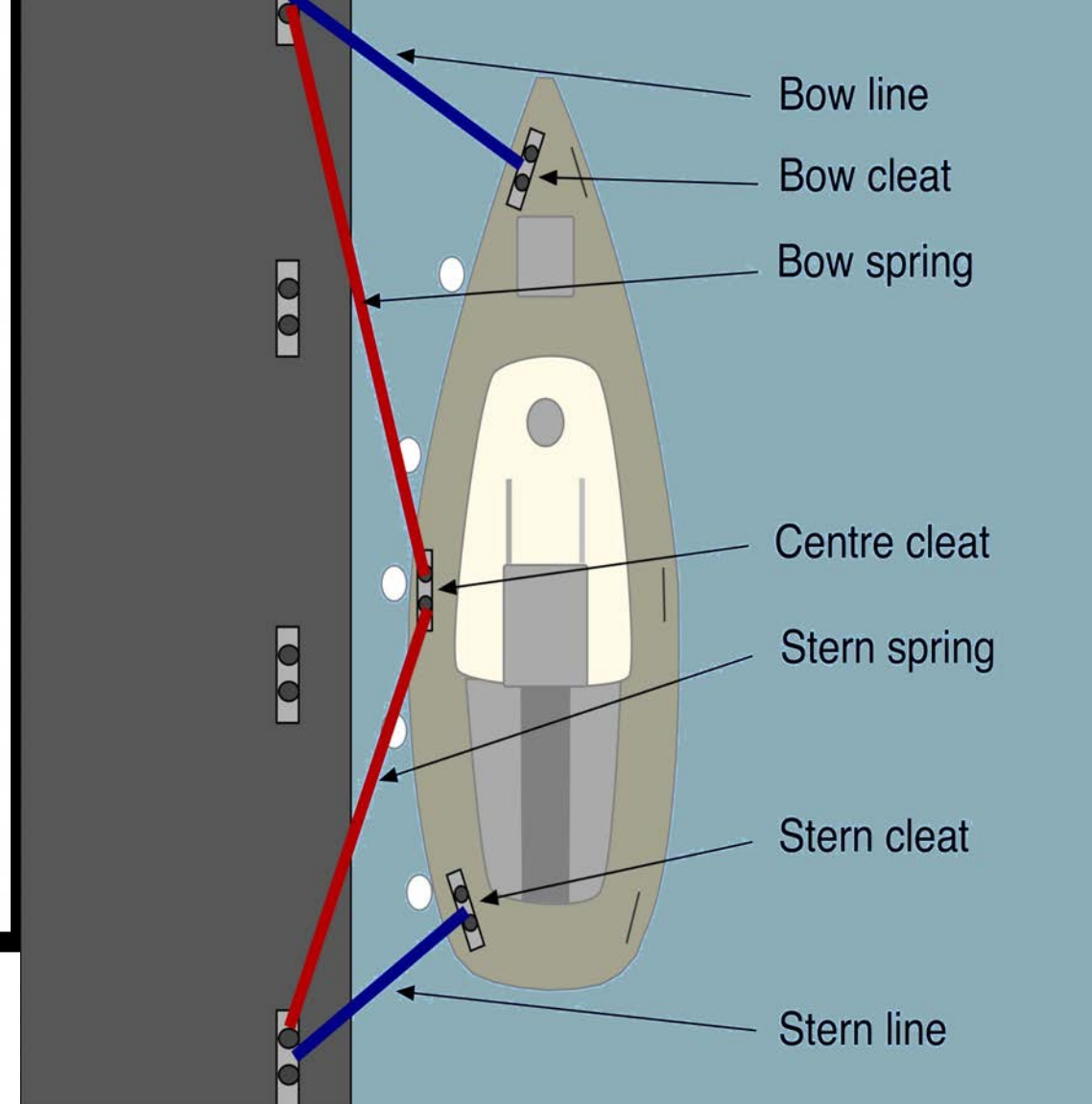


Knots

Should serve their purpose, easy to tie, easy to untie, easy to check/
remember

Rope Management





Mooring a boat

A background image of three people on a sailboat. A man in a blue shirt and sunglasses is at the helm, looking out at the sea. Behind him, a woman in a white shirt and sunglasses is also looking out. To the left, another man in a white shirt and a red cap is visible. The boat is on a blue sea under a bright, sunny sky with some clouds. The text is overlaid on a semi-transparent white circle on the left side of the image.

Maneuvers

A maneuver is good if:

- Everybody knows what to do
- there's a Plan B and C
- nobody got injured
- nothing was damaged

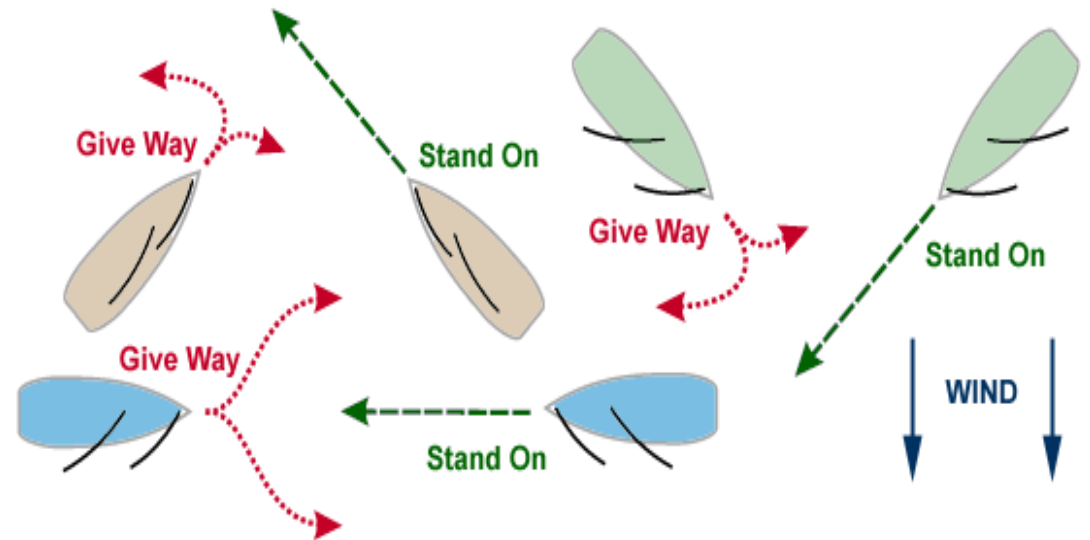
And it's really good if:

- Plan A worked
- no shouting was needed

Give way Rules



Sail before Motor
(Pleasure boats)



If you're sitting on starboard (Starboard tack), you're usually ok, unless you see the back of the others.

However, you also have an obligation to maintain course and speed.