Introduction to Sailing, 1-Day Class





Introductions

- Me, Leslie, Others
- Leslie's House
- S/V June Bug
- S/V Ubiquity
- Other Boats?

Introductions - YOU!

Some of you are new to sailing.Some of you have lots of experience.Some of you are boat owners, :-) or :-(?Poll to find Low-IQ people vs. High-IQ people in the room.

What We Will Do Today

- Introduction to sailing:
 - Concepts
 - Terminology
 - Techniques

- After the classroom work today:
 - Knot practice
 - Practice on boats: use winches, other
 - Sailing!

Your Follow-Up Resources:

- Sailing Terminology Page
- Basic Keelboat Book
- Introduction to Sailing Class Study Questions
- List of Basic Skills and Knowledge for Crewing on Sailboats

Singing and Sailing

- Who are Lin and Larry Pardey?
- Another Time: Listen to them sing their "Yacht Club Bar" song, from "Storm Tactics" DVD.
- Sing together the first verses of their "Yacht Club Bar" song.

Yacht Club Bar Song, Chorus

- I love to sit around the yacht club bar and talk about the things we're going to do.I love to sit around the yacht club bar because it doesn't move.The swells are big and the winds are high
 - but that don't bother me.
- Cause I never get lost and my tummy doesn't toss It's a wonderful life on the sea.

Yacht Club Bar Song, Verse 1

- My boat it is a big one boys. My crew it is the best.
- We race around the entrance buoy beating all the rest.
- We're the first ones home with a bent elbow and a powerful salt spray thirst.
- We sit around and drink all night and see who comes in first.

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Learning Goals

Fun, Challenge Learn Basic Sailing Knowledge: Terminology Theory Techniques What to do on a sailboat Result: You are more useful as crew, or a better captain, on a sailboat.

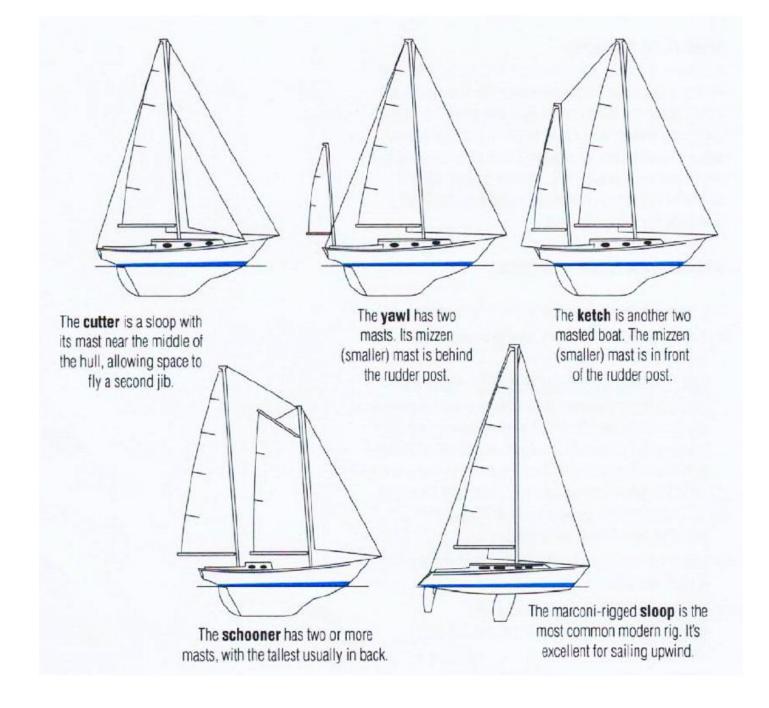
Why Sailing?

Why not do only power-boating instead?
"Life is too short for sailing" – a power-boating friend of mine.
How do power-boating and sailing differ?
Why do sailing?

What are the advantages and disadvantages of sailboats compared to powerboats?

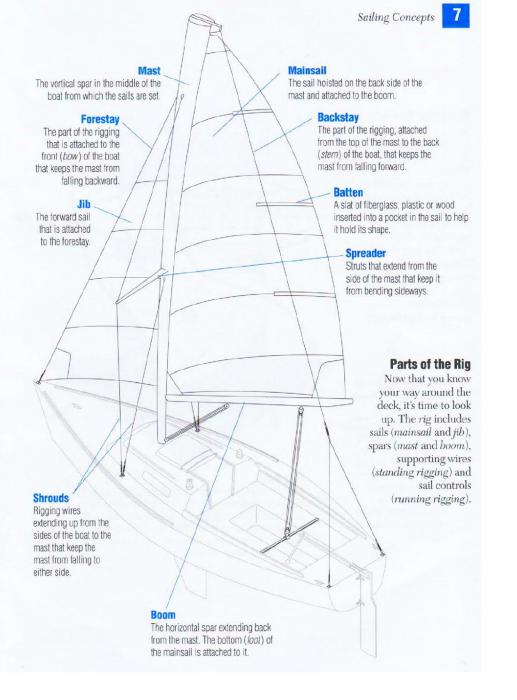
Types of Sailboats

- How to differentiate different types?
- What could be different?
- Rigs: sloop, cutter, ketch, yawl, schooner, catboat, masthead sloops, fractional sloops
- Keels and rudders
- Basic Keelboat, pp. 80-81



Terminology: Parts of a Boat

- *Basic Keelboat*, pp. 6-7
- Basic parts of a boat
- Parts of the sailing equipment/rig (see next slide)
- Go to look at the boats, maybe after class ??



Core Concept in Sailing

How the Boat is Oriented to the Wind

Implications:

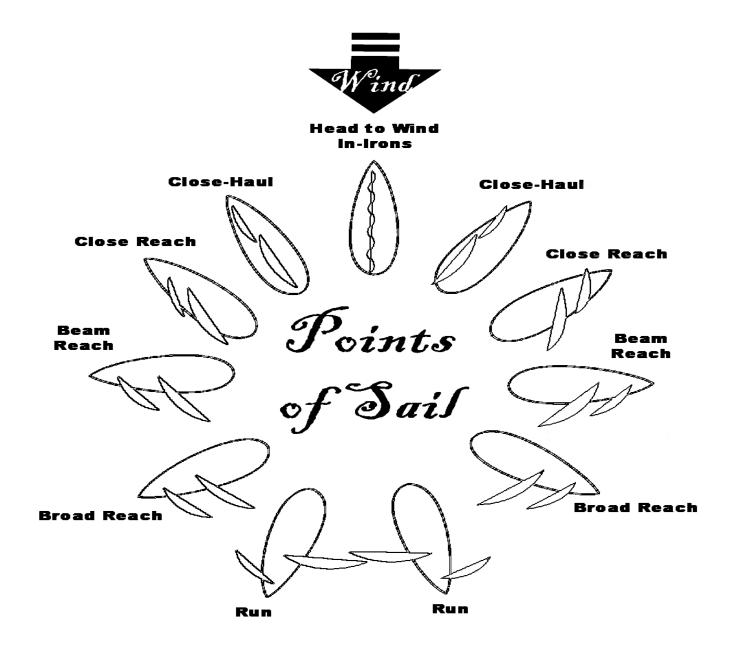
Must keep track of wind direction. We need terminology to describe boat's orientation to wind.

Orientation of boat to the wind determines how we adjust (trim) the sails.

Orientation to the Wind

Basic Keelboat, p. 15 Can we sail in all directions? General Terms: Beating Reaching Running Points of Sail gives us more specific terms. See Basic Keelboat, p. 15

Points of Sail



Terminology for Changing our Heading

Always relative to what we are focused on: where the wind is coming from

- "Head up", "Heading up", "Come up", "Bring it up", etc.
- "Head down", Heading down", "Back off", "Fall off", etc.

Basic Keelboat, pp. 16-17

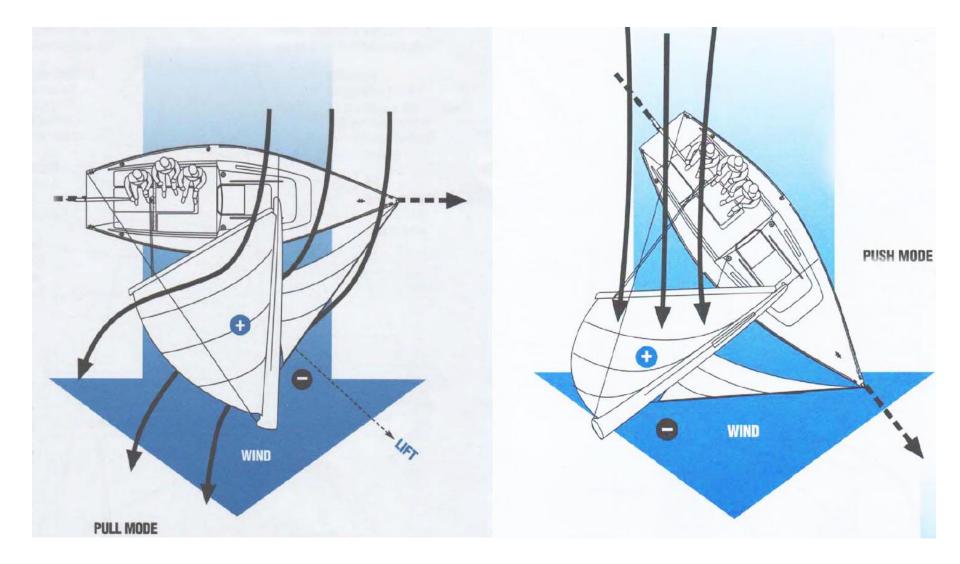
Even the Sails Act Differently Depending on the Point of Sail

Bernoulli Effect

• Exercise with spoon under faucet demonstration

"Pull Mode" vs. "Push Mode"

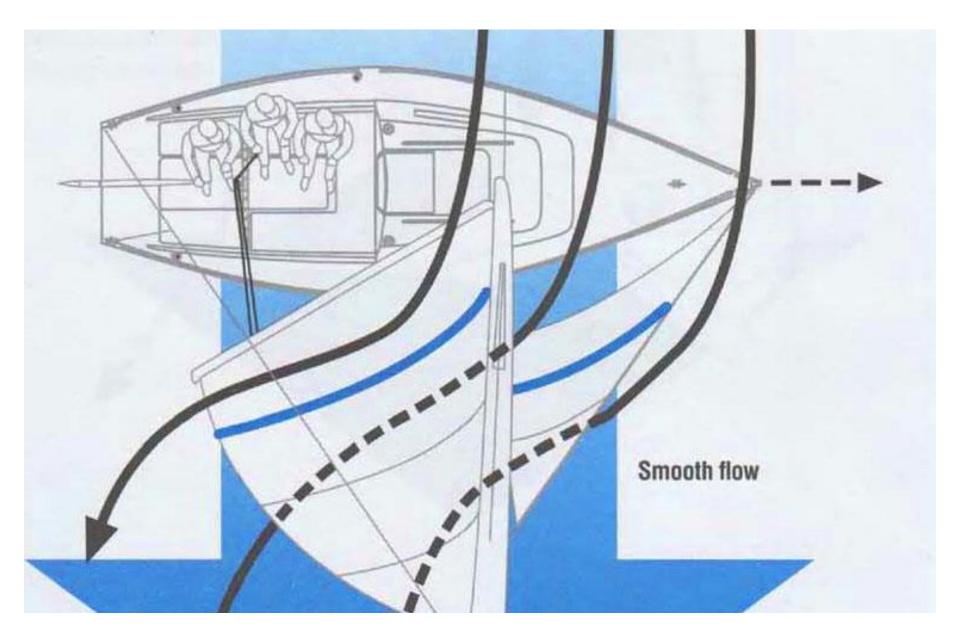
• *Basic Keelboat*, pp. 8-9 (See next slide)

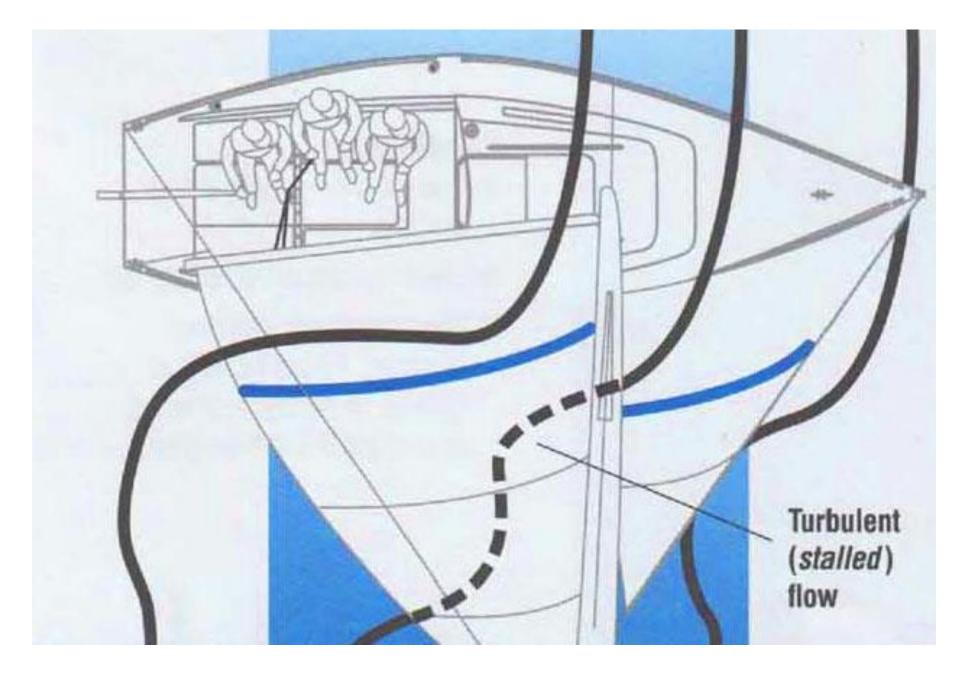


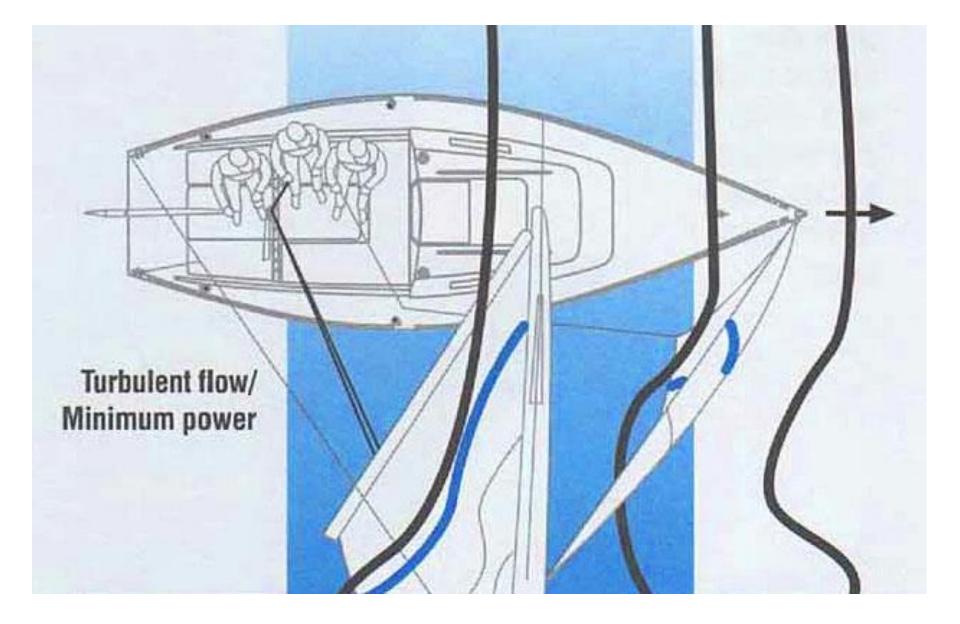
How far You Trim Out the Sails Depends on the Point of Sail

Basic Keelboat, pp. 10-14

How to trim for Different Points of Sail? Effect of Trimming Sails Too Loose? Effect of Trimming Sails Too Tight? Telltales (*Basic Keelboat*, pp. 40-41

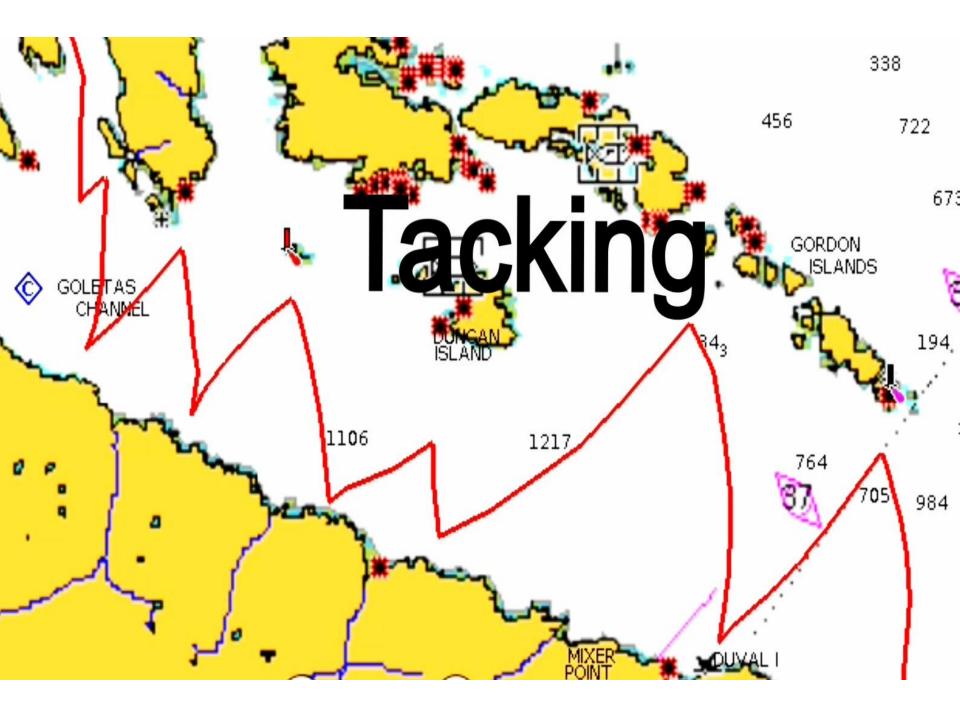






Turning the Boat so that the Wind is on the Other Side

With wind in front: **Tacking**, or **Coming About** With wind in back: **Jibing**



Tacking (Coming About)

Basic Keelboat, pp. 18-19 Commands: Ready about? (or ready to tack?)

Ready!

Tacking (or hard alee, or helms alee)!

Jibing

Basic Keelboat, pp. 20-21 Commands: Ready to jibe? Ready! Jibe ho!

Terminology: Sails and Major Control Lines

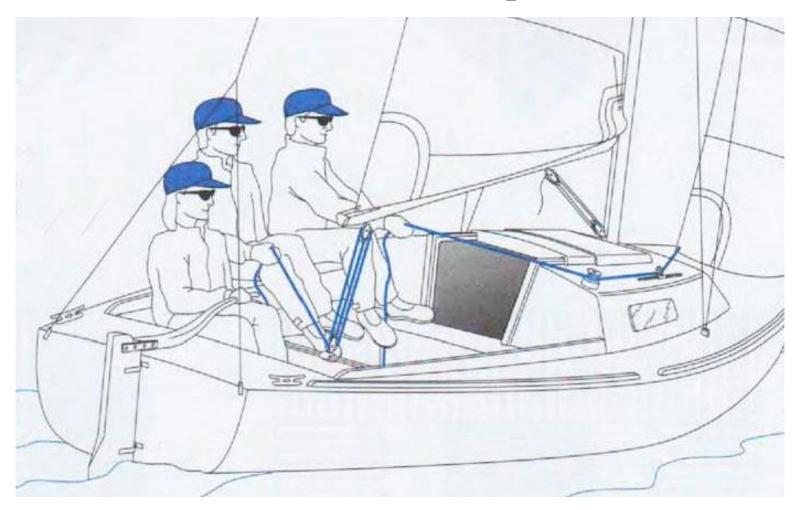
Most sails have:

3 corners, each with a name3 sides, each with a name*Basic Keelboat*, pp. 28-29

Halyards – To raise sails Sheets – To trim sails Inspect the boats to identify halyards, sheets

Crew Positions, Responsibilities

Basic Keelboat, p. 36



Helmsman Responsibilities

- Keep Watch
 - Boats, Barges, Deadheads, Buoys, Shallow Water
- Stay on Point of Sail
- Sailing Downwind: Guard vs. Inadvertent Jibe
- Responding to Wind Shifts (Basic Keelboat, pp. 54-55)
- Sometimes commands Tacks/Jibes

Tiller Steering

Basic Keelboat, p. 37

"Tiller Towards Trouble!"

Crew Responsibilities: Tailing and Grinding

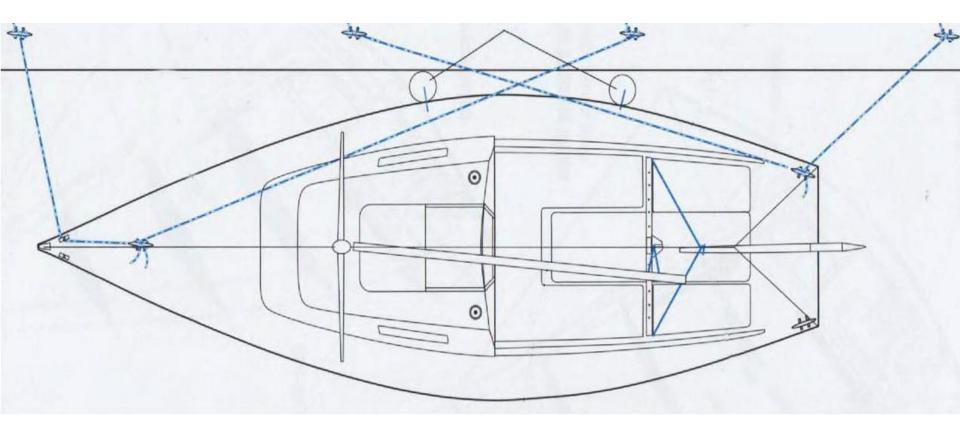
- Self-Tailing Winches vs. Non-Self-Tailing Winches
- Use of Winch Handles
- Handling Working Sheet and Lazy Sheet
- Tying off Working Sheet

Other Crew Activities, Returning

- Open life-line gate
- Deploy fenders
- Positioned to step quickly off onto dock
- Tie Boat to the dock, Basic Keelboat, p. 49
- Fold/bag headsail
- Remove/coil jib sheets
- Flake mainsail, stow lazy jacks
- Stow main sheet
- Position canvas, instrument covers

Tying/Un-Tying Boat to the Dock

Basic Keelboat, p. 49



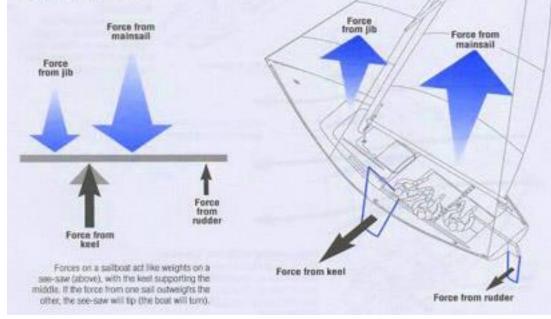
Sail Balance

Balance

You can steer a boat with its sails instead of its rudder because of a principle called *balance*. A sailboat is a collection of forces in motion, not all of which are headed in the same direction. There are forces exerted by the mainsail and the jib, both of which pull the boat forward and sideways. There are opposing forces exerted by the water on the keel and rudder.

When all of these forces are in balance, the boat will sail forward in a straight line. If they are not, the boat will want to turn. This is why you are able to steer the boat by trimming in or easing either the mainsail or jib. By doing so, you are consciously throwing the boat out of balance.

As your sailing skills improve, you will use the principle of balance more and more to get the best performance out of your boat and execute more advanced maneuvers. For now, just understanding balance will help explain why certain things are happening on your boat.



Weather Helm

versus Lee Helm

End of THINKING Part of Class

Switch to DOING Part of Class

On-Dock Practice:

-Winches -Moving around on Boats

Working with Line: -Coil a Line -Knots

Sail on Boats

On-Dock Practice

Winches:

- Self-Tailing Winches
- 2-Speed Winches
- Using Winch Handles

Moving around on the Boats:

"One hand for you, one for the boat"

Working with Line

Learn to coil a line!

Bonus: Danish Coil, Braiding

Knots (Basic Keelboat, pp. 58-60):

- 1) Figure 8 Stopper Knot
- 2) Cleat Hitch
- 3) Round Turn and Two Half-Hitches
- 4) Bowline