



Next Presentation: **Adam Bowers**

"Feeling the speed!"

1500-1600



Boat Speed Sail & Rig & Foils



Why Bother?

The Essential Rules of Racing:

- Fastest speed
- Shortest distance

(Paul Brotherton)



Fundamentals

- ☉ Fundamental one: The wind must come into the rig, flow over the rig, and exhaust from the rig.
- ☉ Fundamental two: power is generated by turning the wind away from it's original course by the rig.
- ☉ Fundamental three: power is released by not turning the wind away from it's original course by the rig.



Websites

- <http://www.grc.nasa.gov/WWW/K-12/airplane/foil2.html>



20 Units





Fourth Corner Technology

- The wind is lazy!
- All it wants to do is blow open the 4th corner.
- Power up
- Release power



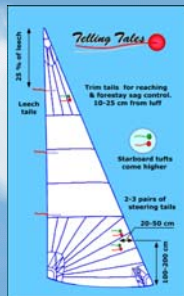
Tools of the trade

- | | |
|---|-----------------|
| <ul style="list-style-type: none"> • Tuning guide • Tension meter • Tape measure | } Static set up |
| <ul style="list-style-type: none"> • Mark 1 eyeball • Main sail map • Rudder • Tell tales | |



Telling Tales

- Surface
- Exit
- Camera to show where the tell tales?

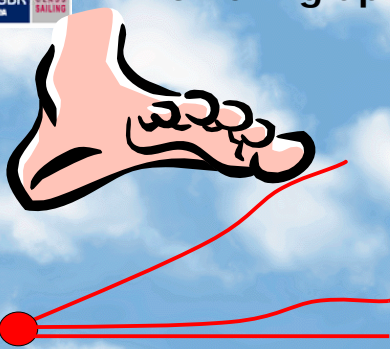


Tell Tale Language

Finding the corridor



Powering up the sail



Mainsail Map

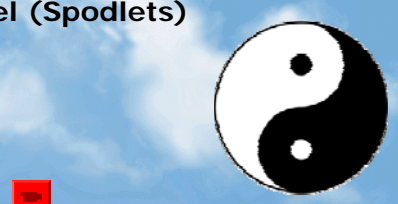
- Tell tales?



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Rudder

- Balance
- The feel (Spodlets)



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Mechanics

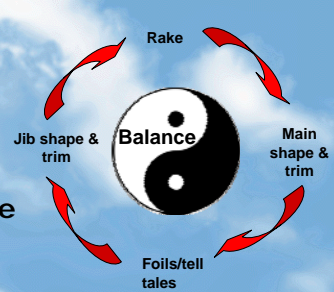
Place the arrows



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Static Set Up

- Where?
- Luff curve
- Rake
- Personal tuning guide



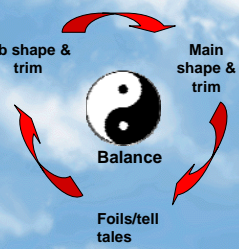
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Controlling the shape

Main	Jib
• Kicker	• Sheet tension
• Cunningham	• Sheet angle
• Outhaul	• Luff tension/ sag
• Mast	• Down haul/ halyard
• Sheet tension	

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Dynamic set up process



- Main sail map
- Tell tales
- Rudder
- (Tethered rudder)

Gear Changing 1

5 Units

