

Sail Shape and Trim From the Coach Boat

Mike Ingham

Goal: Speed By Real Time Comparison

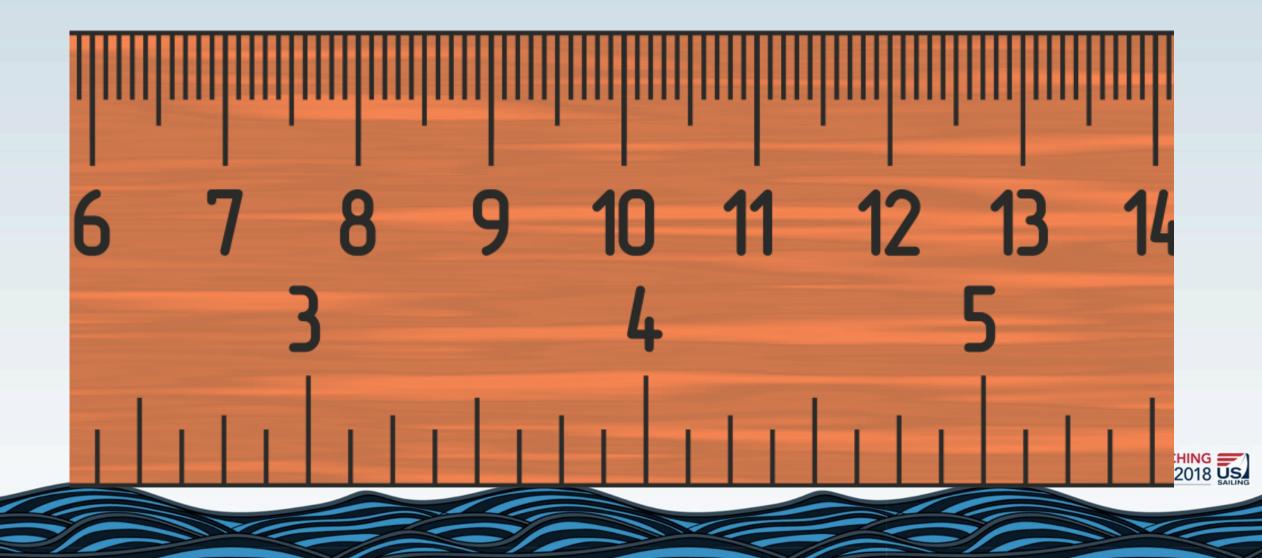




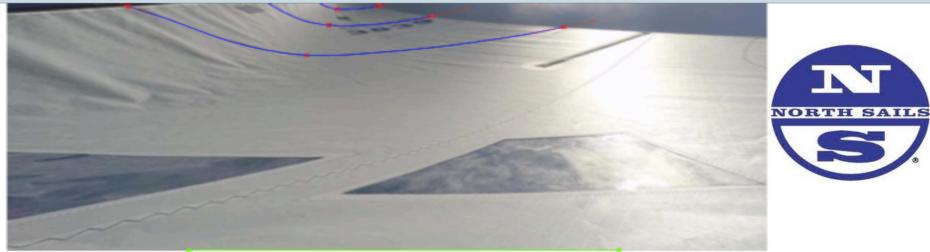
• **Trim:** -Leach Profile -Flow (Leach tales)

Shape:
Camber
Draft
Mast bend
Shroud tension
Rotation
(Not talking about today)

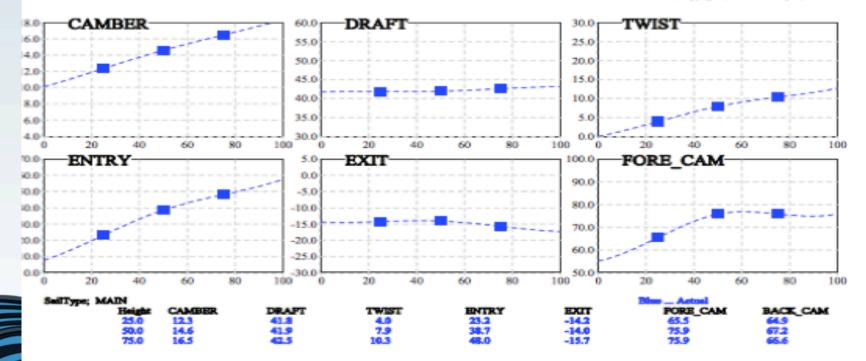
Problem: Our eye not good at absolutes



Have Computer Tools- But Not Real Time

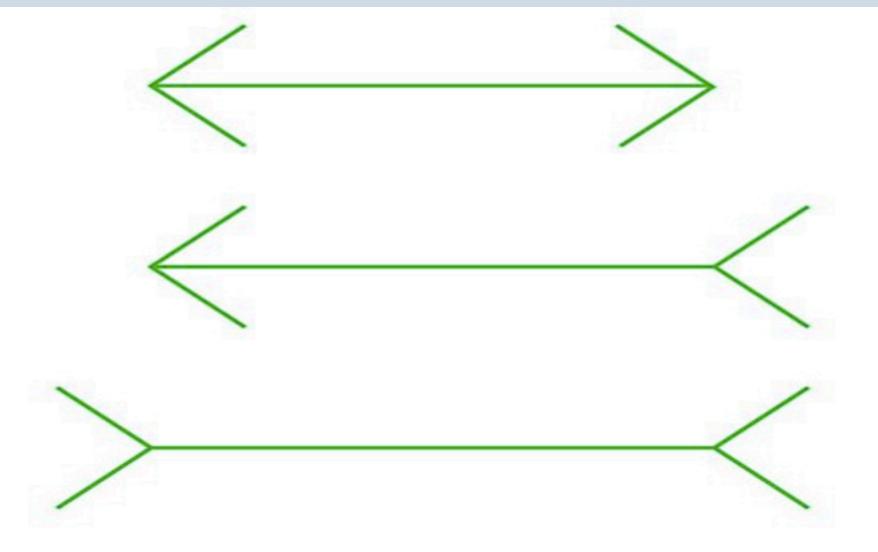


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Our Eye is Easily Fooled



Human Eye Best at Direct Comparison



Human Eye Best at Direct Comparison



Trim First!

• Then setup



Main



Main Leach Tale:

-Flow analog -"25% stall"

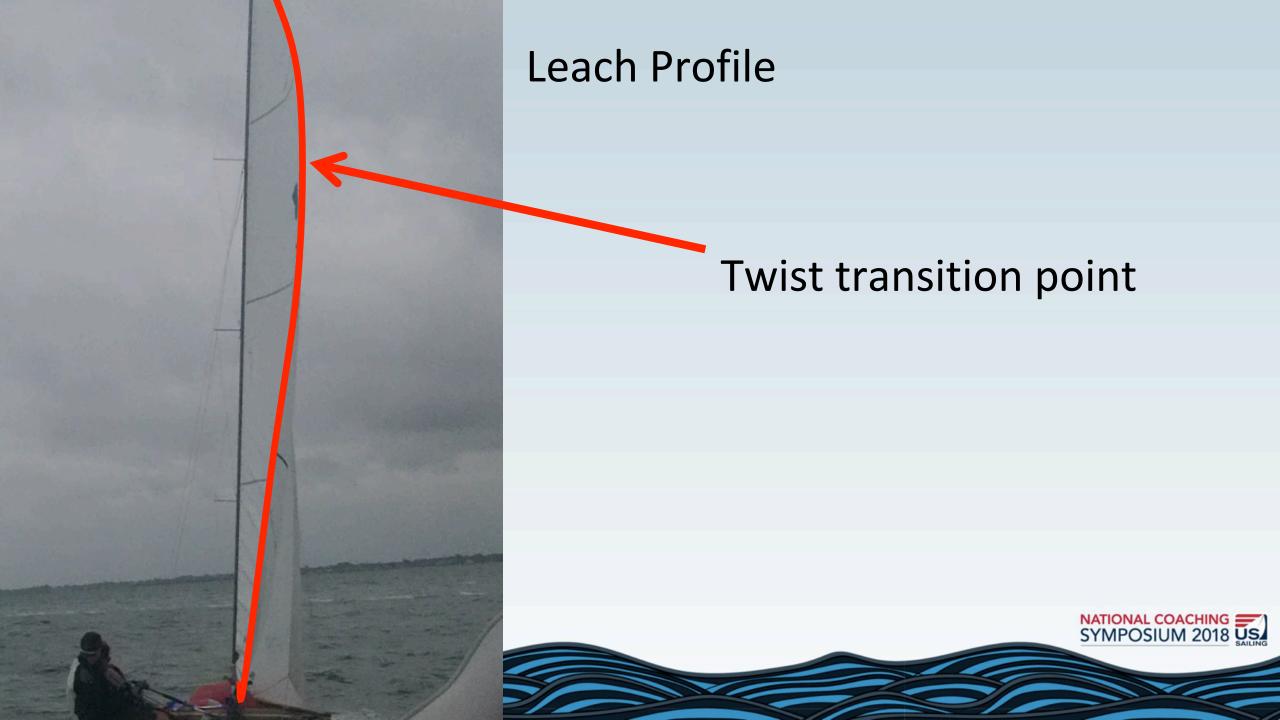
-Cycles ~3 seconds

~10 click ratchet range From 10% to 90% Stall



Flow Near Main Leach Partially Detached



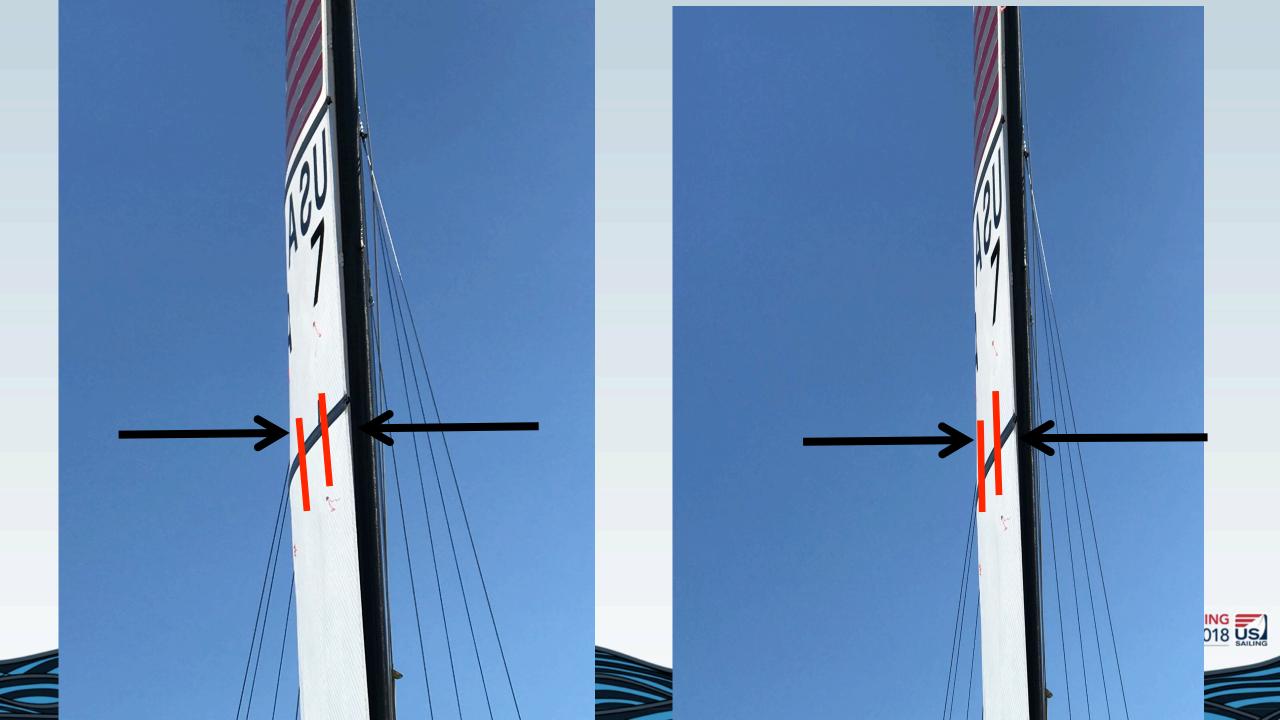


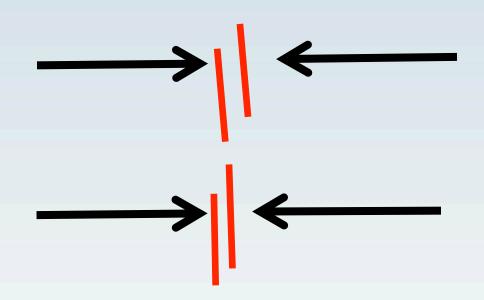
Over-bend Wrinkles





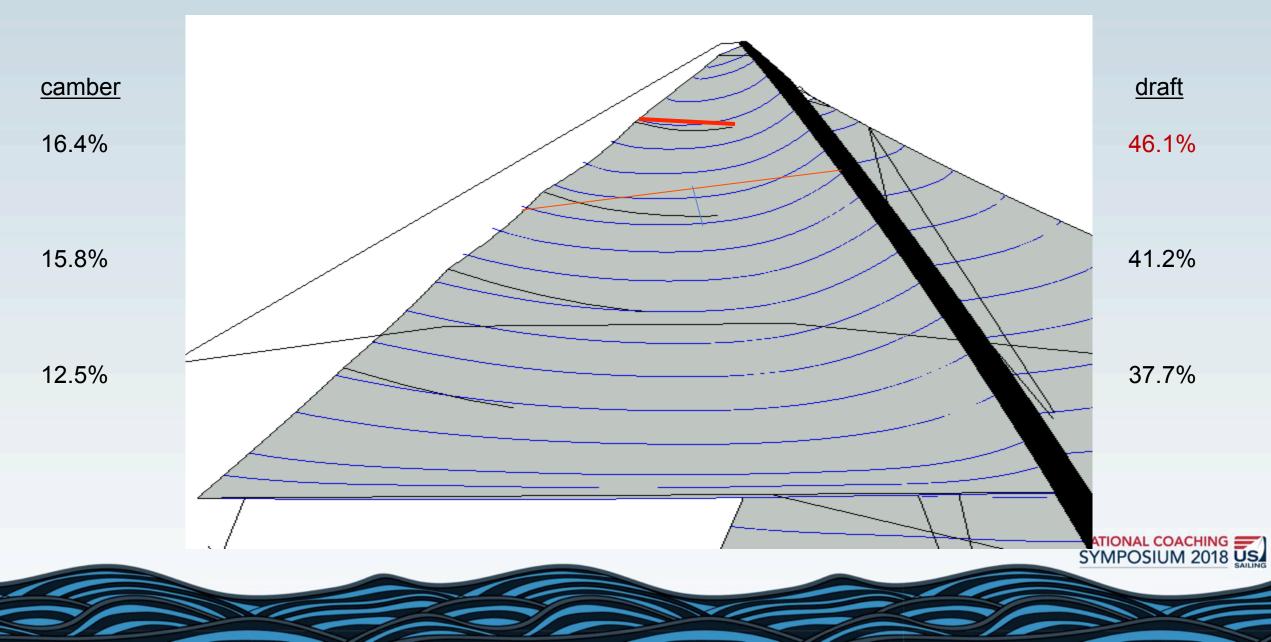




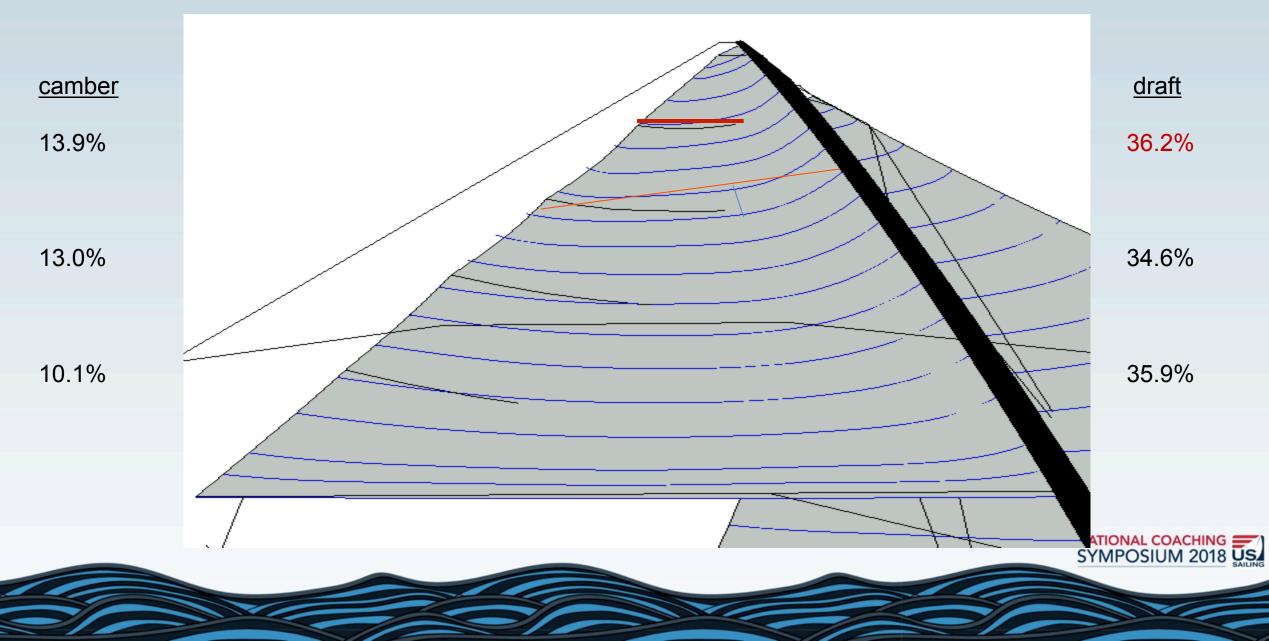




zero cunningham



Tight cunningham







Jib



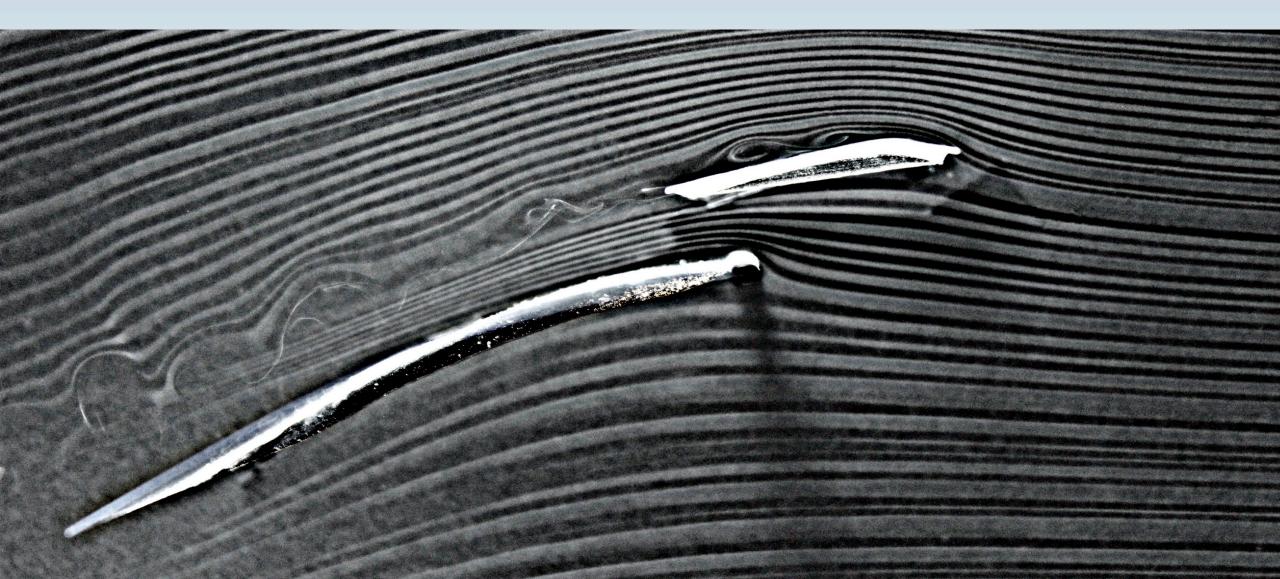




Jib Leach Tale: -Flow "digital"

SYMPOSIUM 2018

Over Trim Jib =Complete Flow Separation







Spin





Curl: -Amount -Height

SYMPOSIUM 2018



Use Curl Instead of Tales Because Separation







