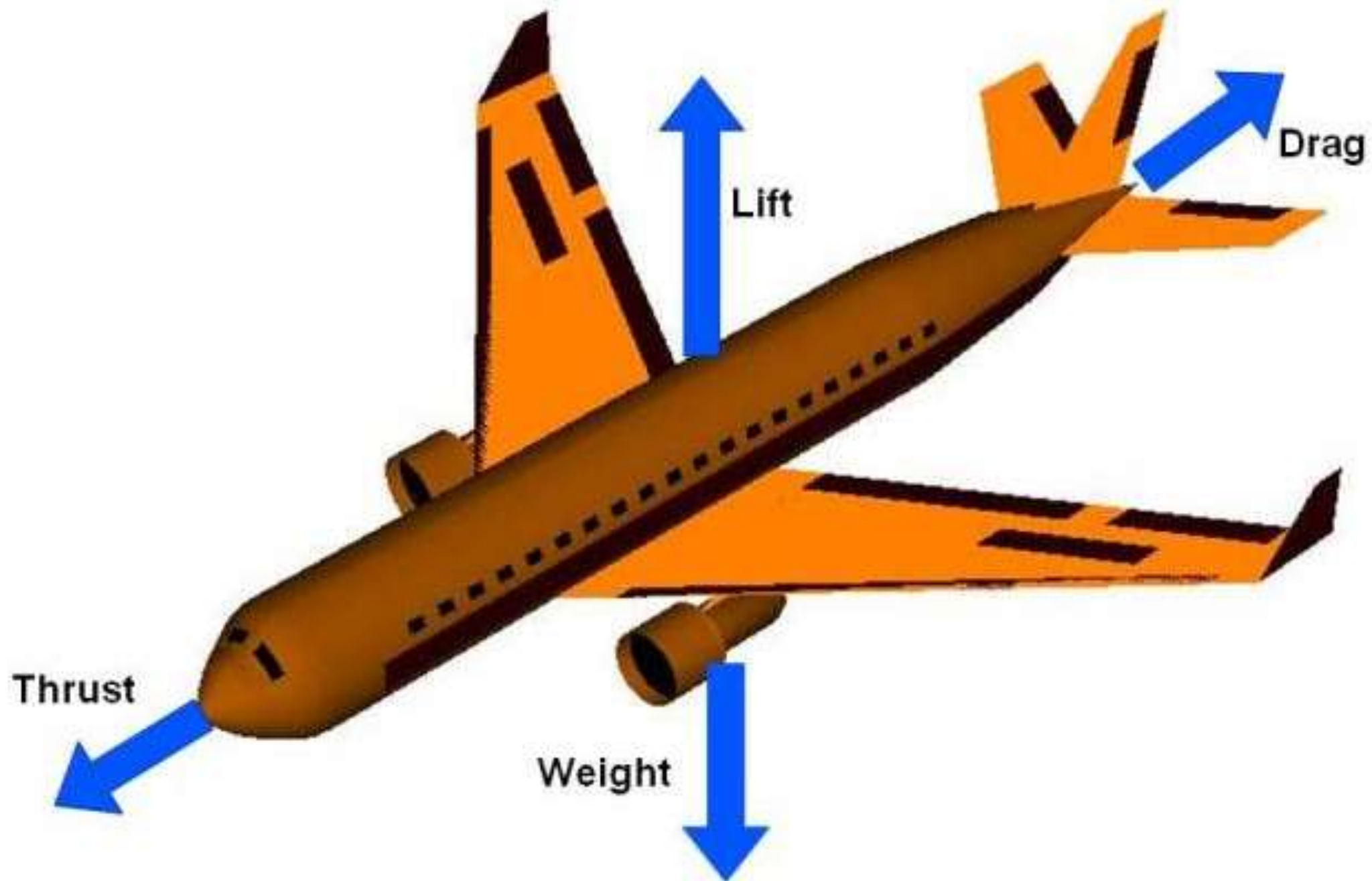


Boom Supersonic 11/11/17 Agenda

- Who we are (5 min)
- About Boom (5-10 min)
- Airplanes 101

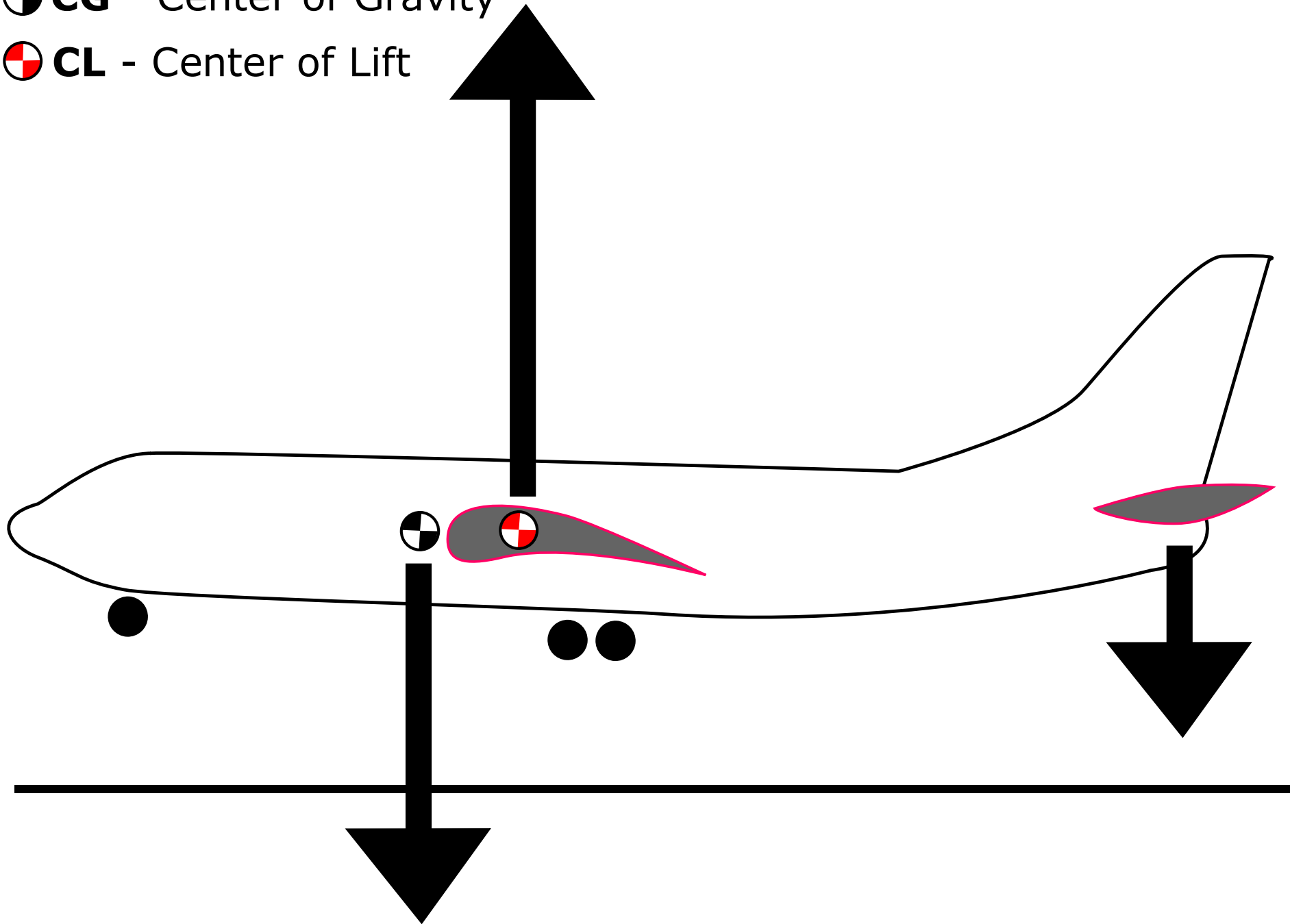






⊕ **CG** - Center of Gravity

⊕ **CL** - Center of Lift



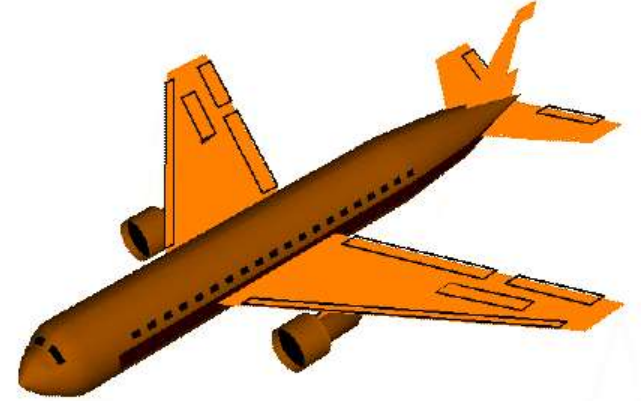
Ailerons - roll



Elevator - pitch



Rudder - yaw



Questions

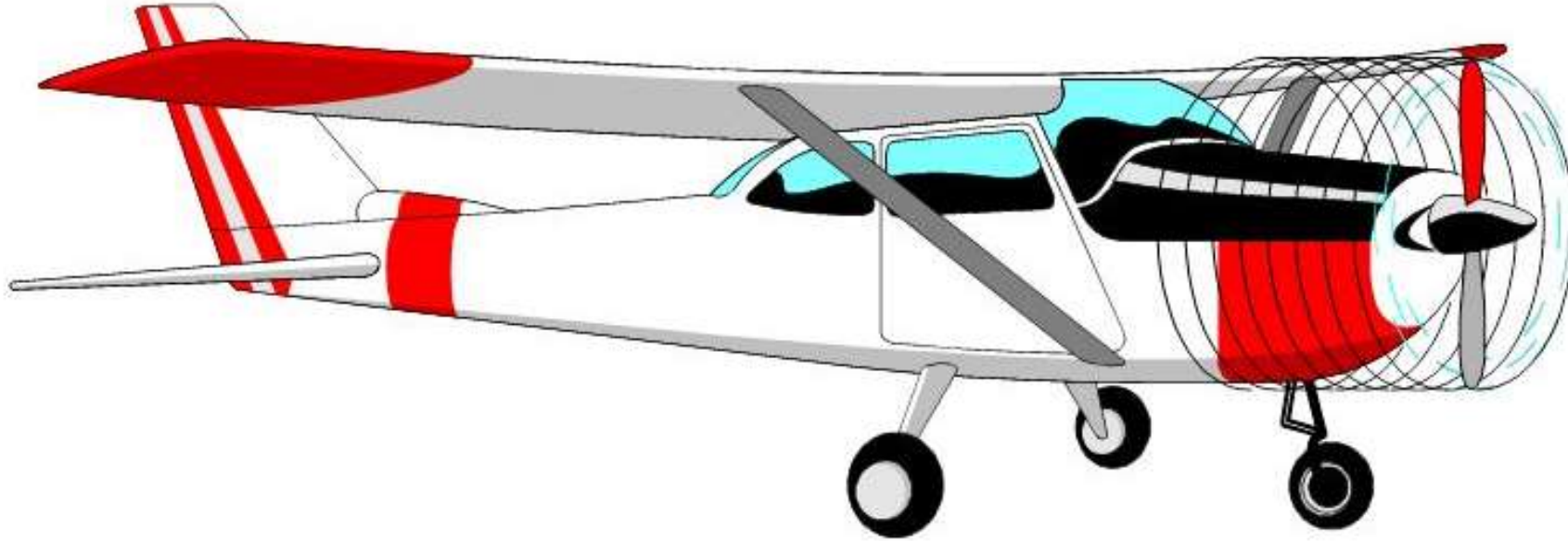


Engineering Development Schedule

- Design: **COMPLETE**
 - Configuration: Balsa glider, conventional tail, mid wing
- Wind Tunnel Test: **SCHEDULED**
 - Determine lift vs. angle of attack for wind tunnel test article
- Flight Test: **SCHEDULED**
 - Determine wing position for maximum flight distance

Backup Slides

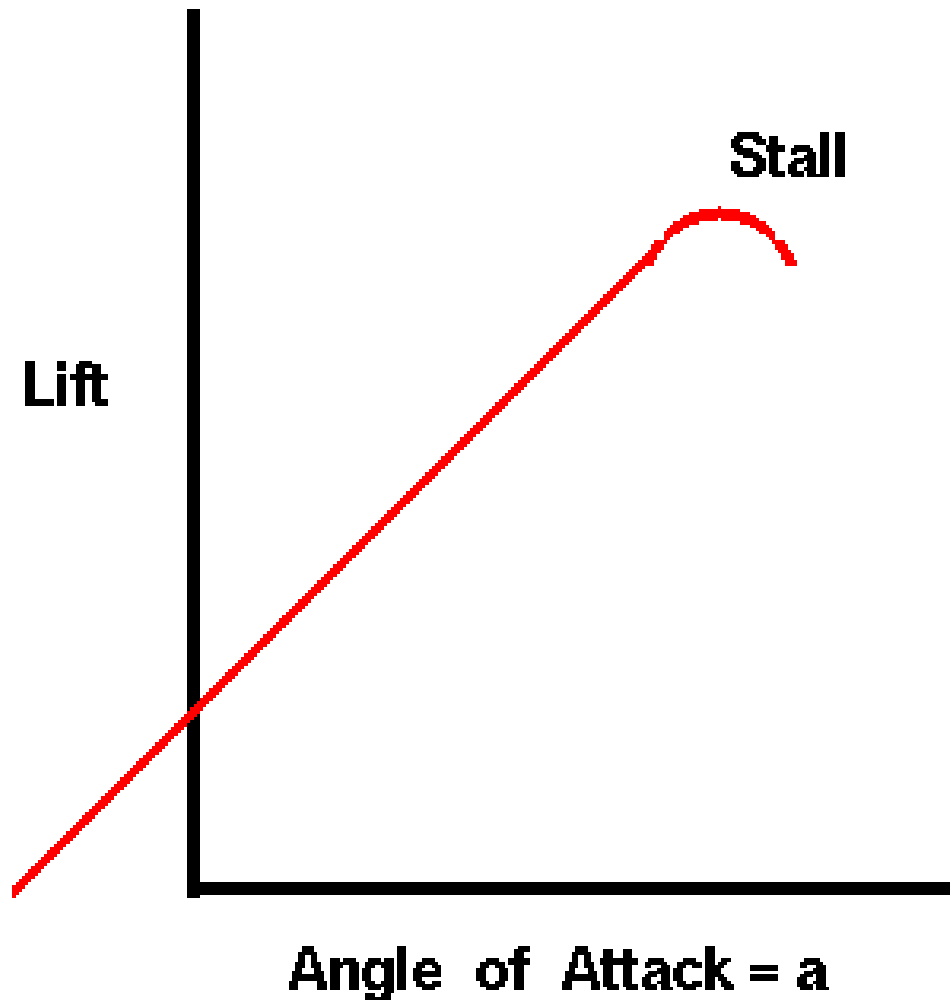
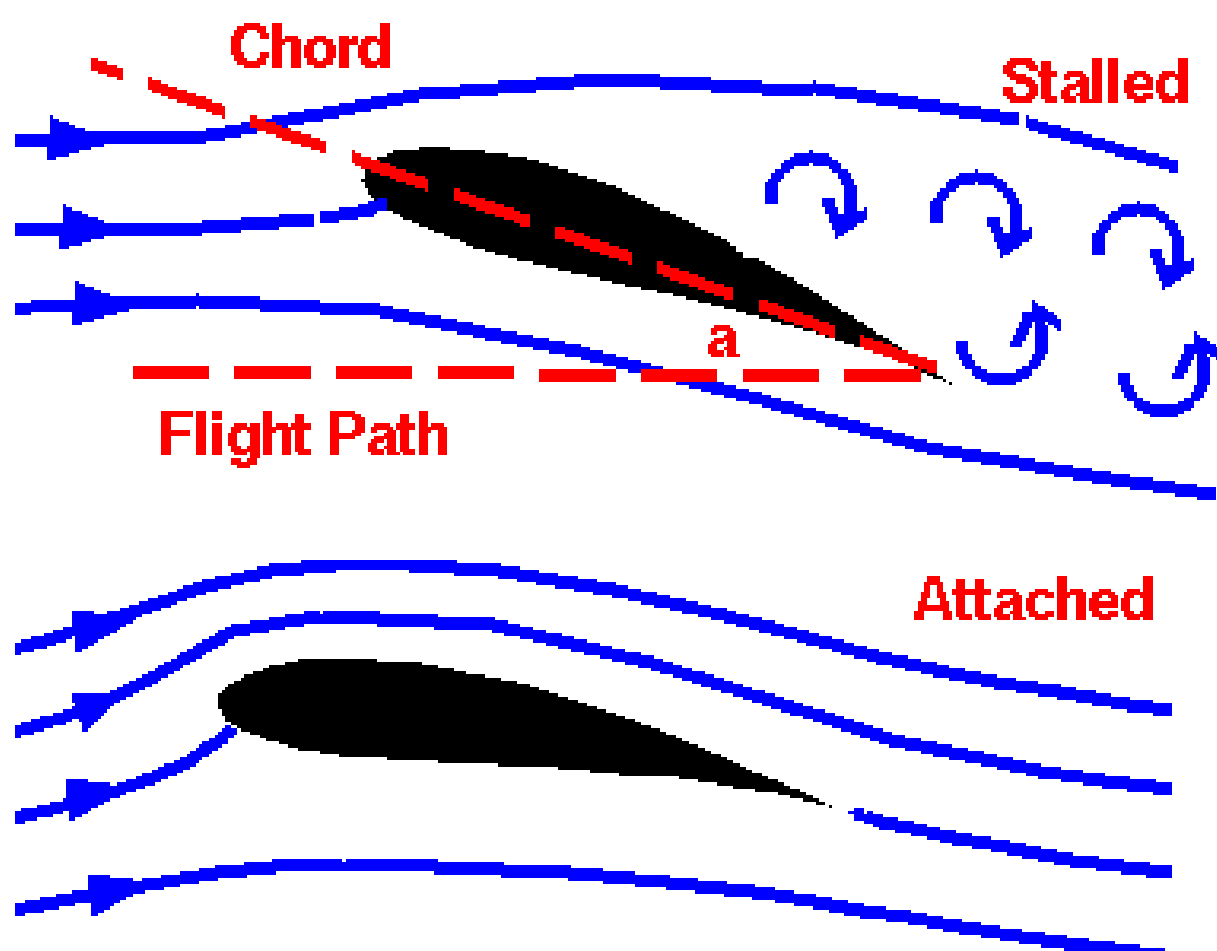
How does lift apply to propellers?



On Propellers, LIFT is called THRUST

And propeller Blades work the same way as aircraft wings

When a propeller spins and the aircraft moves forward, the tips of the propeller blades move in a 'corkscrew' path



For small angles, lift is related to angle.

Greater Angle = Greater Lift

For larger angles, the lift relation is complex.

Included in Lift Coefficient