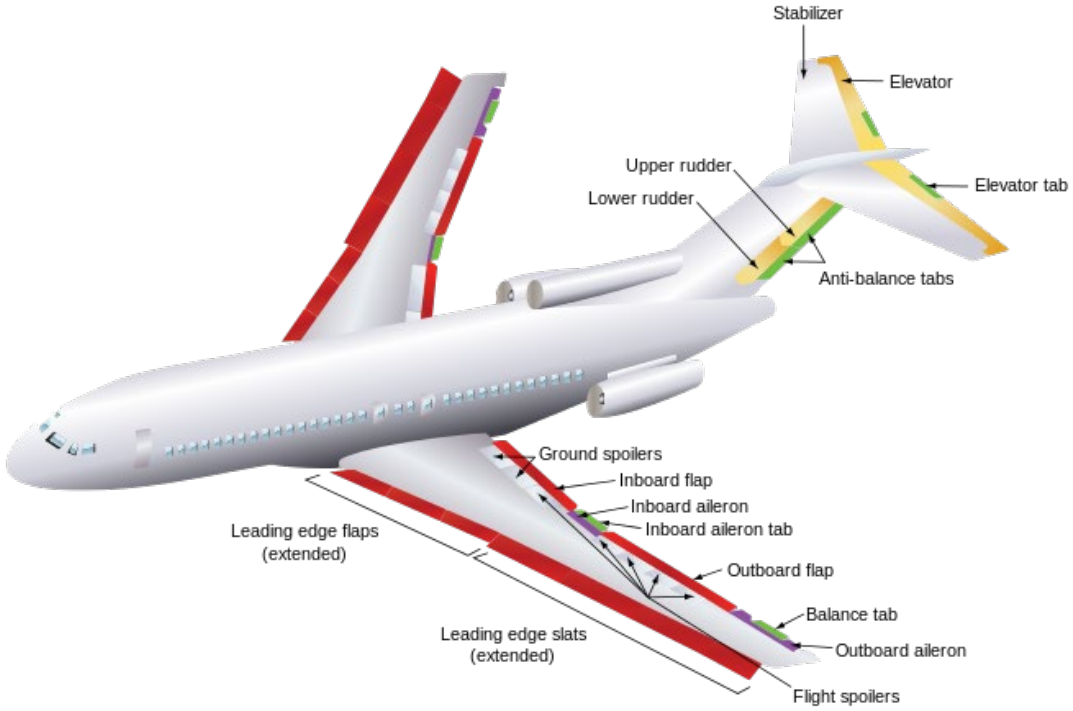
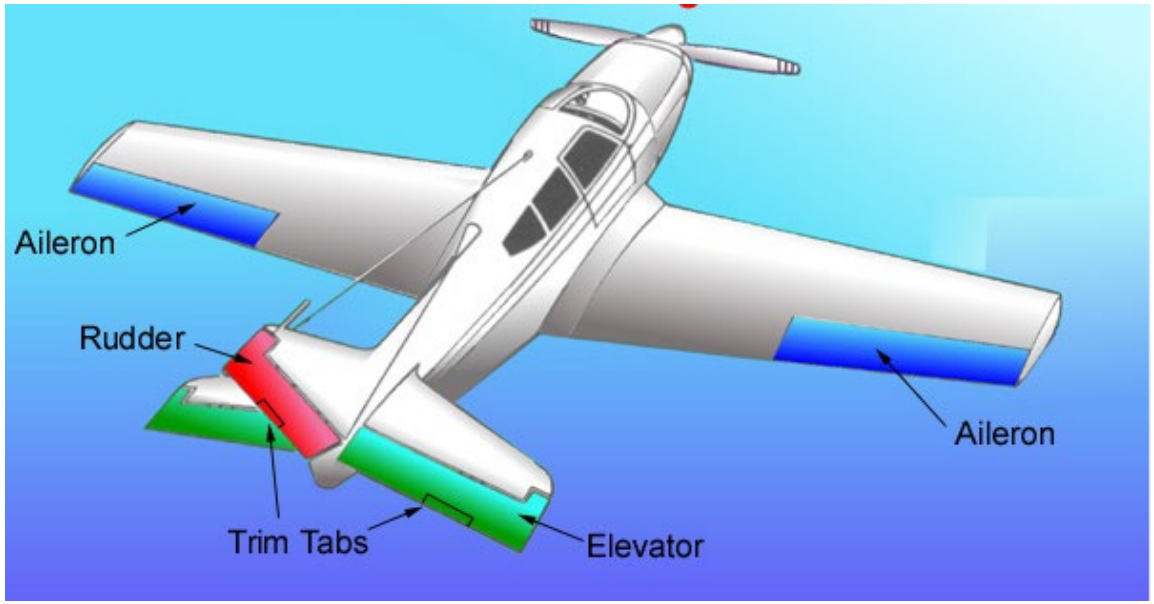
Airplane Flight Controls

First Some Diagrams





On the Ground

Throttle for speed

Taxi at ‘wake speed’

Yoke/stick => Nothing except to counter act the wind

Left rudder pedal => Plane’s nose moves left

Right rudder pedal => Plane’s nose moves right

In the Air

Move the yoke/stick to the right => Plane rolls right/clockwise

Move the yoke/stick to the left => Plane rolls left/counterclockwise

Move the yoke/stick forward => Plane pitches down

Move the yoke/stick toward you => Plane pitches up

Left rudder pedal => Plane's nose moves left

Right rudder pedal => Plane's nose moves right

Pitch for Airspeed

Plane pitches down => Goes faster

Plane pitches up => Goes slower

Think about driving on level road then up or down a hill

…without changing the gas pedal

In the plane you ‘control the hill’

If the airspeed is 90 knots and we desire 75 knots what do you do?

If the airspeed is 60 knots and we desire 75 knots what do you do?

The Recipe for Turns

When flying, you must **combine** the ailerons and rudder pedals to have a coordinated turn.

Roll right + right yaw => Plane banks to the right

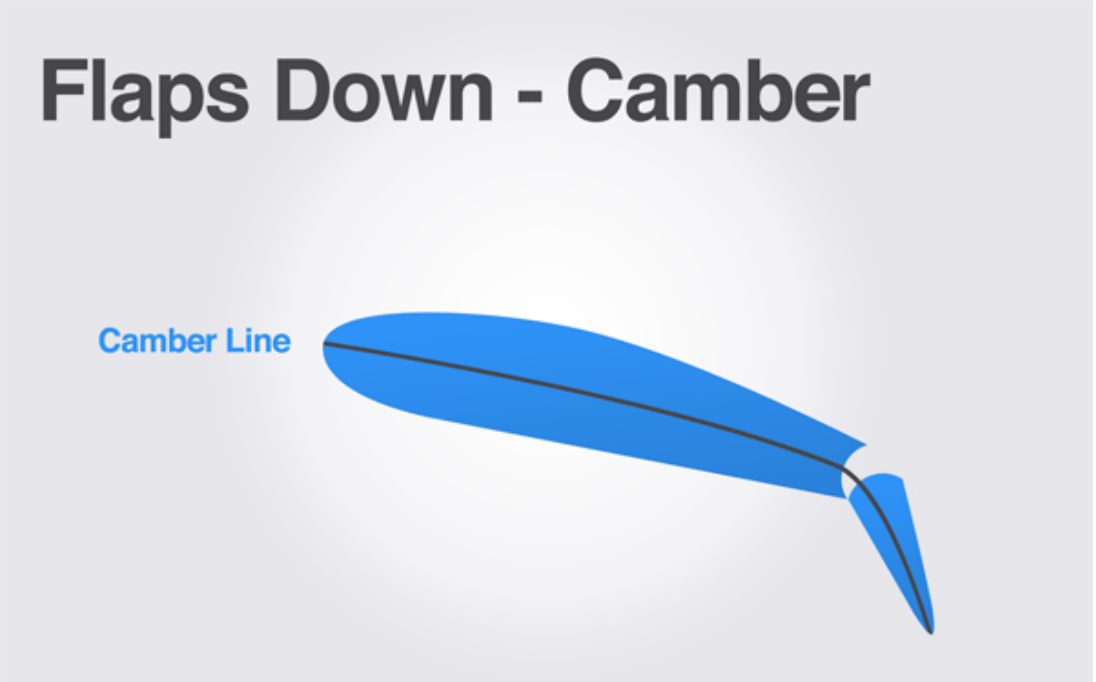
Roll left + left yaw => Plane banks to the left

Flaps

Increase lift to assist in flying slower

Increase drag to help reduce airspeed

Increase decent angle without increasing the airspeed



Any questions I can answer or follow up later on?