



Parts of an Aircraft-2

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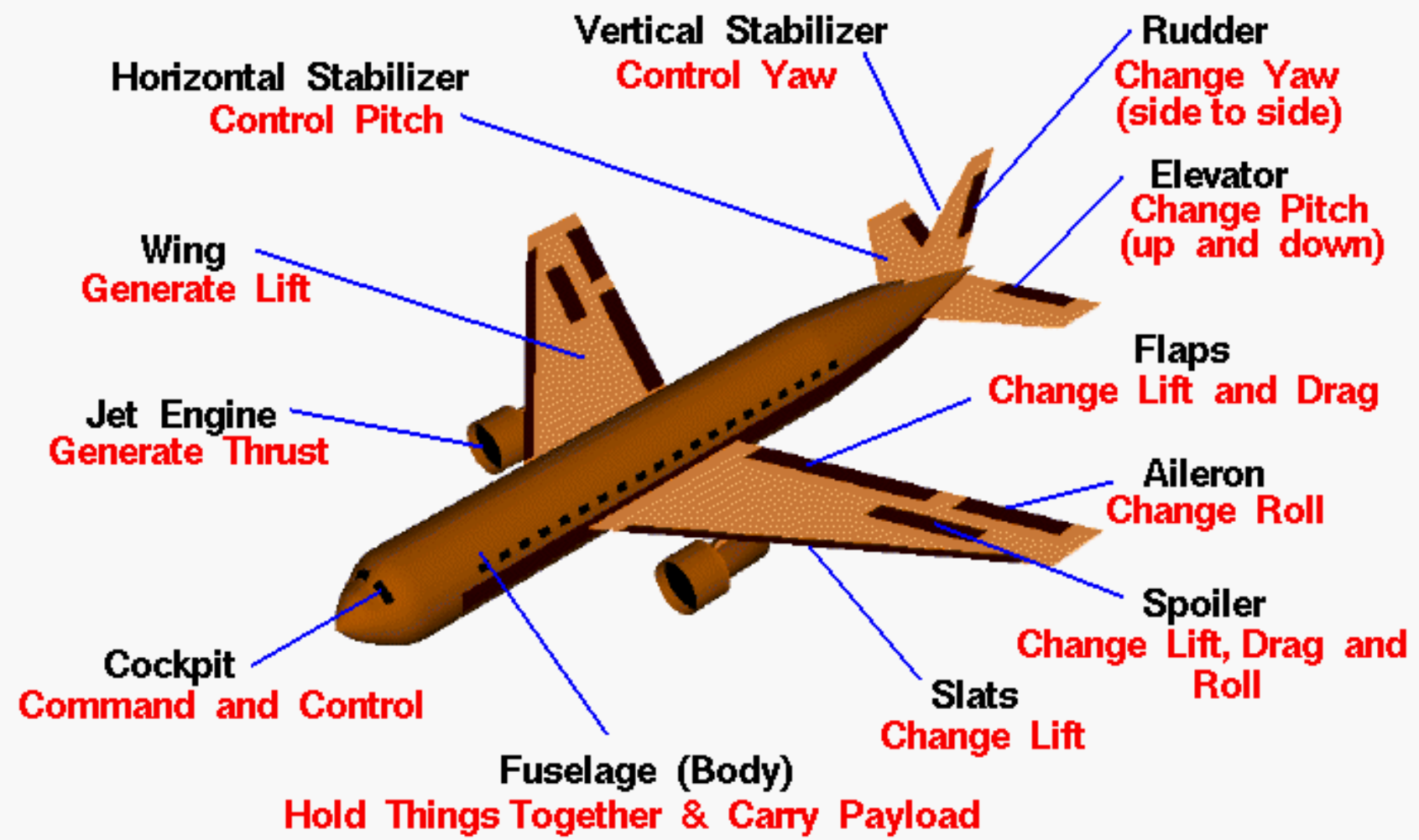
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Airplane Parts Definitions and Function

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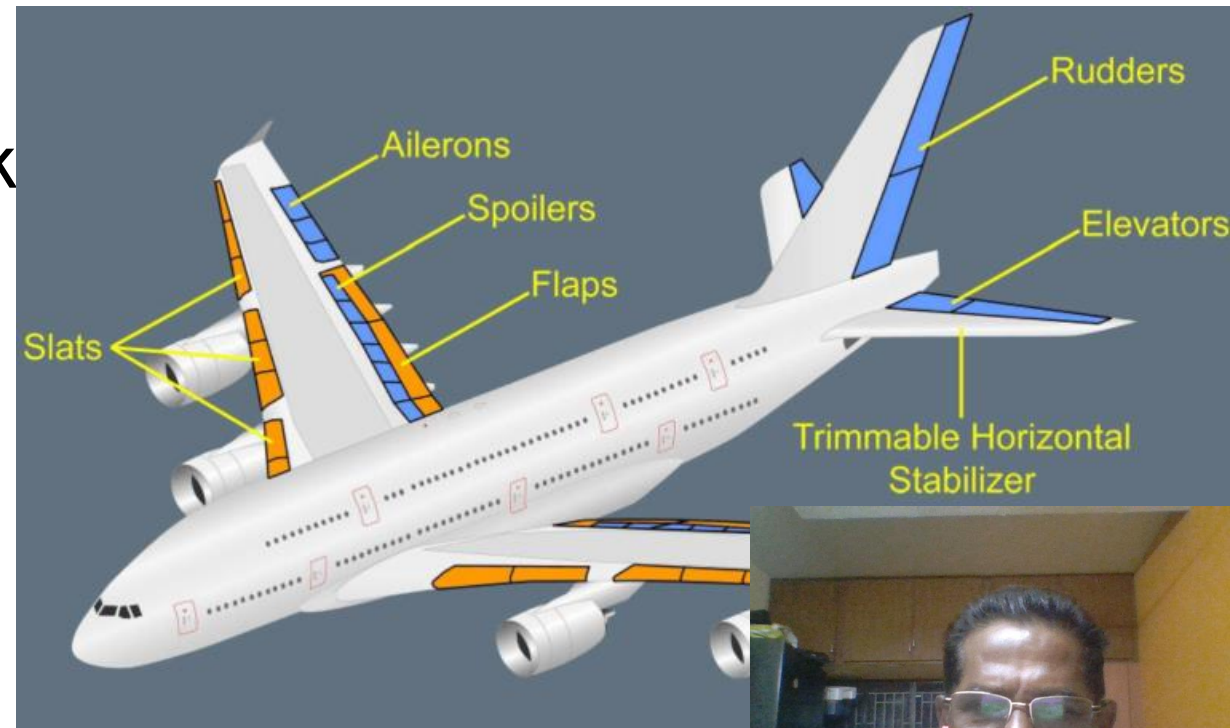


Flaps

Flaps are trailing-edge high-lift devices.

That's a technical way of saying that they are movable surfaces on the back of the wings that help the plane make more lift

They're used to help a high-speed plane fly slowly for takeoff and landing.





Basic section



Slotted flap



Plain flap



Fowler flap



Split flap



Slotted Fowler flap





Flaps Up - Larger AOA

Smaller Camber Requires Larger AOA



Flaps Down - Smaller AOA

Increased Camber Requires Smaller AOA



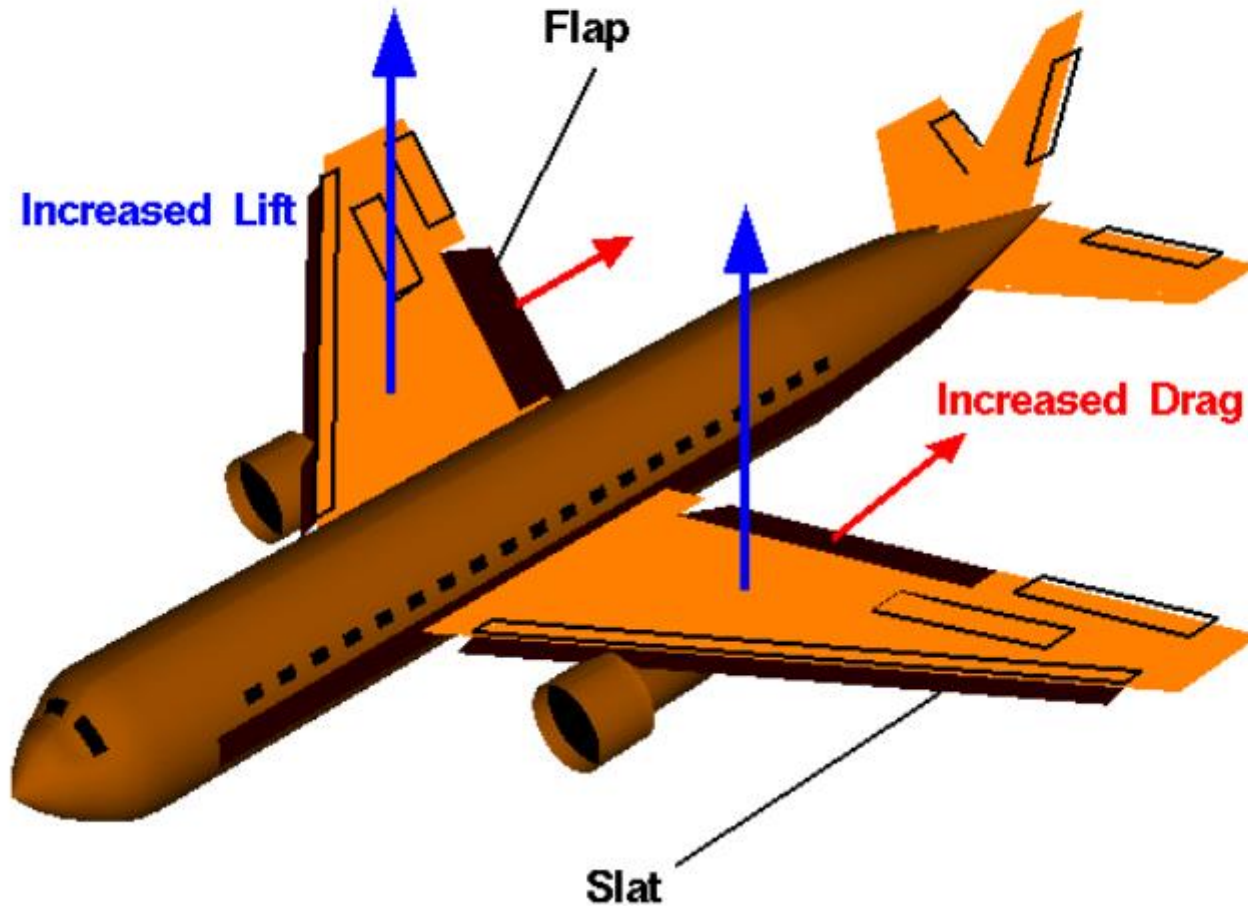
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Flaps and Slats

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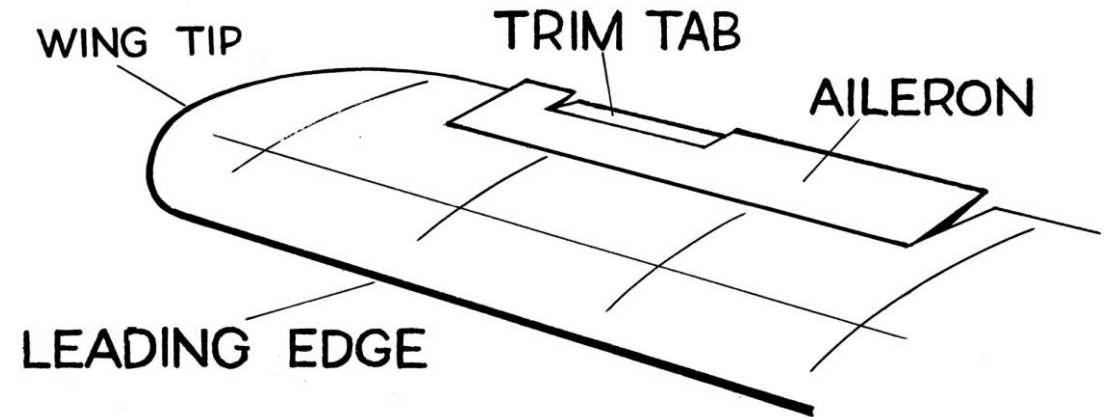


Aileron

An **aileron** (French for "little wing" or "fin") is a hinged [flight control surface](#) usually forming part of the [trailing edge](#) of each [wing](#) of a [fixed-wing aircraft](#).

Ailerons are used in pairs to control the aircraft in [roll](#) (or movement around the aircraft's [longitudinal axis](#)), which normally results in a change in flight path due to the tilting of the [lift vector](#).

Movement around this axis is called 'rolling' or 'banking'.



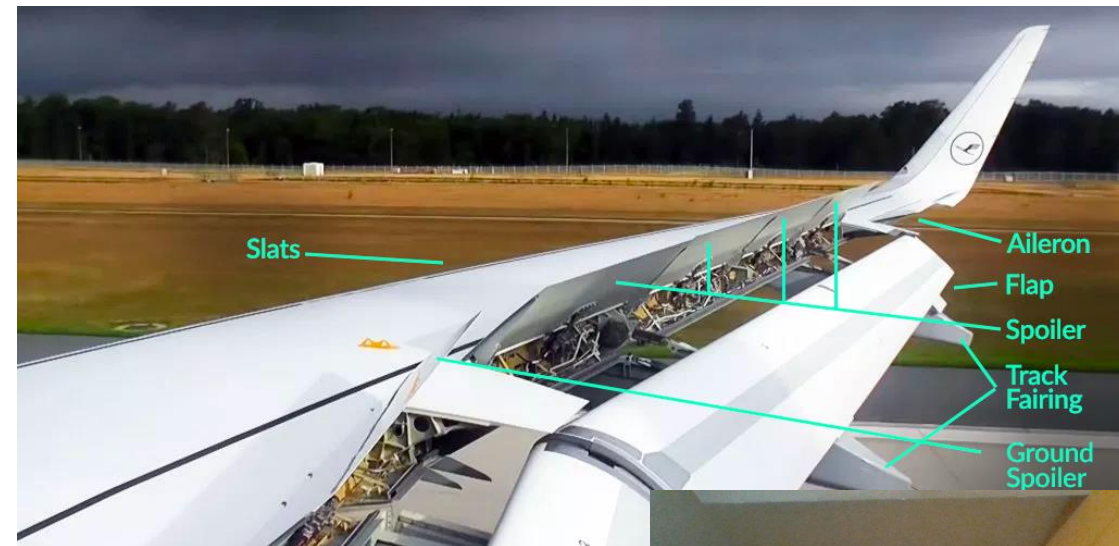


Spoiler in Aircraft

In [aeronautics](#), a **spoiler** (sometimes called a **lift spoiler** or **lift dumper**) is a device which intentionally reduces the [lift](#) component of an [airfoil](#) in a controlled way.

Most often, spoilers are plates on the top surface of a wing that can be extended upward into the airflow to *spoil* the streamline flow.

By so doing, the spoiler creates a controlled [stall](#) over the portion of the wing behind it, greatly reducing the lift of that wing section.



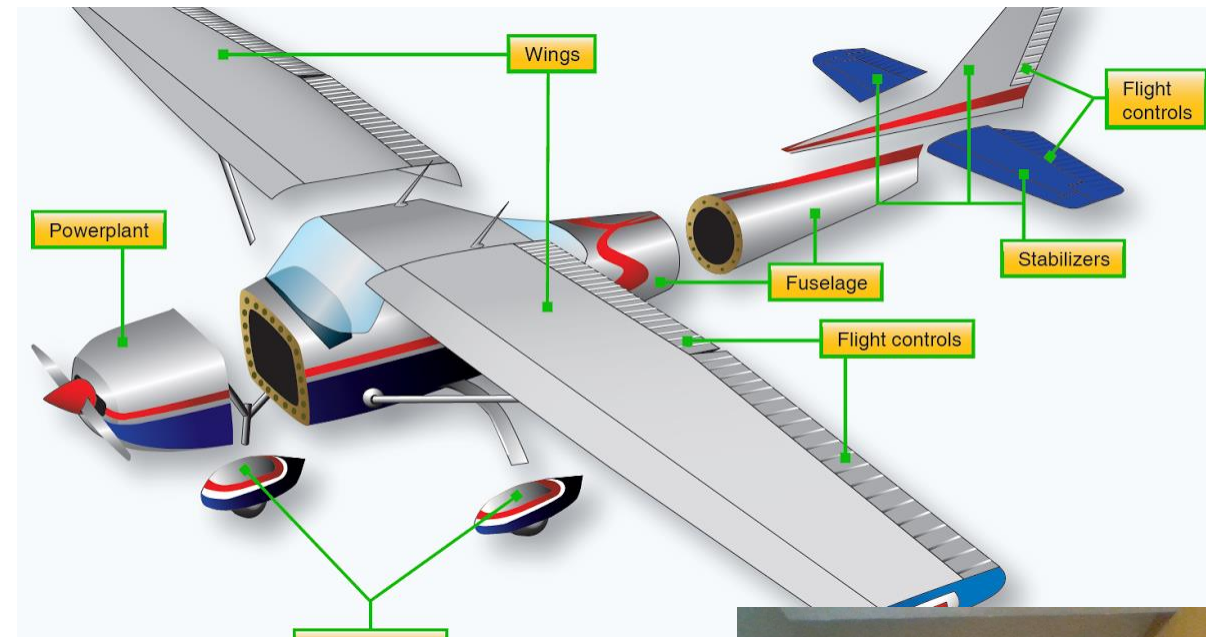


Fuselage

The main body section of an aircraft is called a fuselage.

This forms the central body of the aircraft onto which wings, control surfaces and sometimes engines are connected.

The fuselage houses the crew, any passengers, cargo, an array of aircraft systems and sometimes fuel.





Cockpit

A **cockpit** or **flight deck**^[1] is the area, on the front part of an [aircraft](#) or [spacecraft](#), from which a [pilot](#) controls the aircraft.

The cockpit of an aircraft contains [flight instruments](#) on an instrument panel, and the controls that enable the pilot to fly the aircraft.

