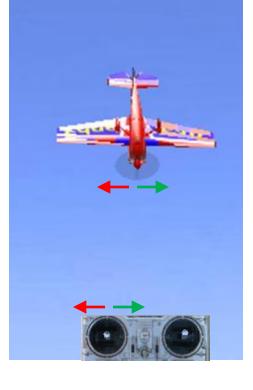
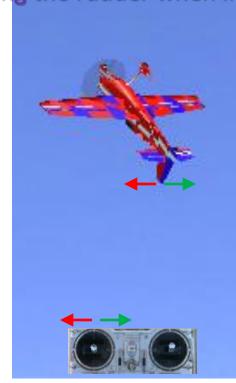
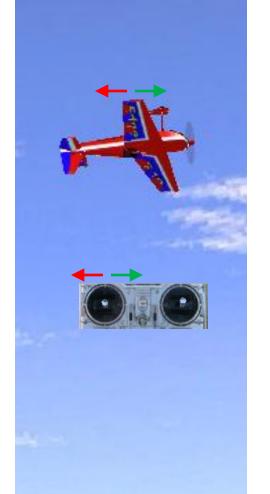
Using the rudder when inverted

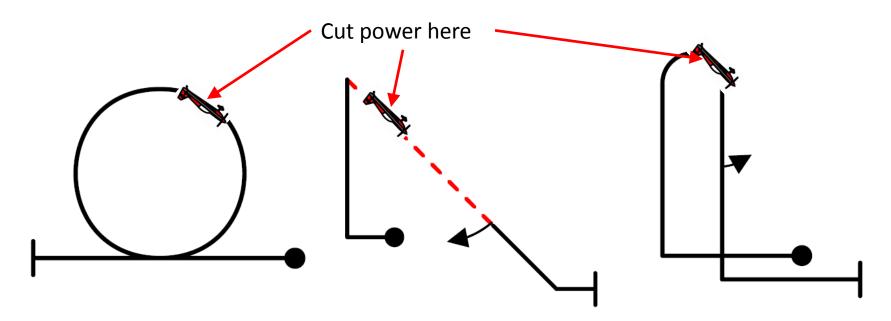




For rudder corrections when inverted, imagine the rudder stick is attached to the part of the plane that is pointed at you. Move the stick right to move that part of the plane right and vice versa.



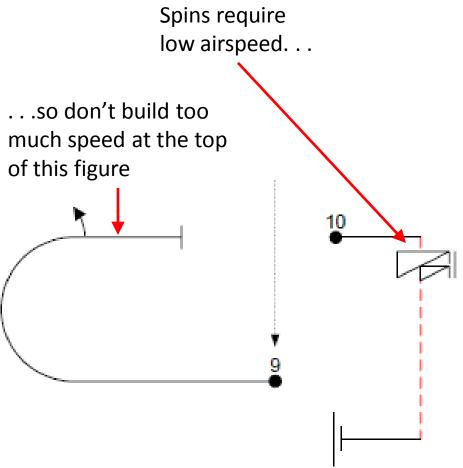
Power over the top



At the top of a loop, partial loop or vertical line, airspeed is reduced. To regain airspeed and control authority quickly, keep the throttle open past the highest point of the figure, then pull back to idle.

Don't allow speed to build too much; cut back when the pitch of the engine/prop start to increase.

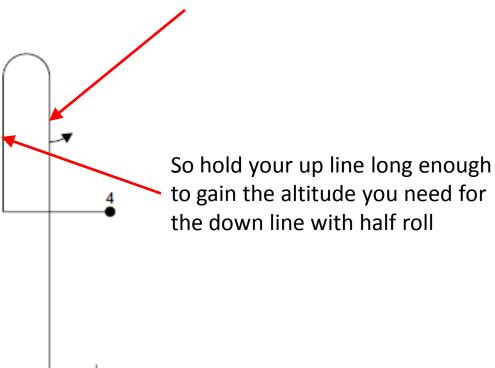
Thinking Ahead



Building too much speed at the top of the Immelmann will cause you to drift too far to the right waiting for speed to bleed off so you can complete the spin

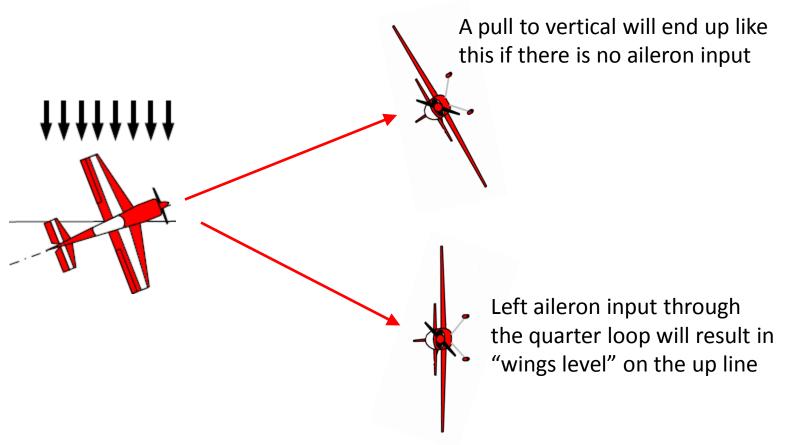
Thinking Ahead

On the down line you will need enough time to draw a line, do a half roll and continue the line



Wind correction

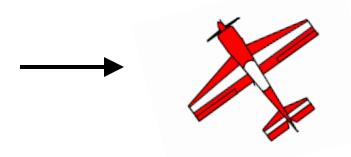
Pull to vertical up line as seen from above, beginning with a crab angle into the wind



Work every control axis constantly to maintain correct orientation

Wind correction

Wind corrections change constantly – vertical line shown below



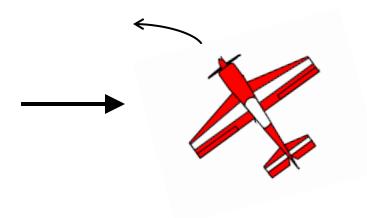
Aside from gusts and changes in direction, the wind generally has a gradient, stronger at higher altitudes



As the plane loses speed in the up line and the wind increases with altitude, the crab angle will need to be increased (usually, but pay attention to be sure)

Wind correction

Maintaining a correction angle – vertical line shown below

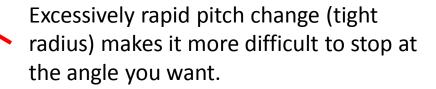


At a high crab angle the plane will tend to fall off to the side. To maintain the crab angle shown, left rudder is used, followed by right rudder to keep the angle from increasing



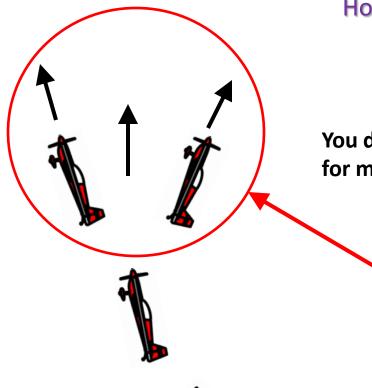


You don't get extra points for flying a "big" figure, nor for making sharp corners. How big should your radii be?

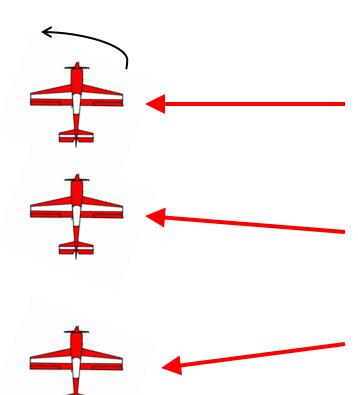


Choose a radius that allows you to stop consistently at the angle you want, but no larger. Too large a radius will hurt your airspace control.





The perfect hammerhead



- 3. As the plane stops, apply full rudder, keeping the engine at a fast idle or "blipping" the throttle to help the turn. Turning into the wind is preferred. Cut back to idle when the down line is established.
- 2. Wait for the plane to stop. The flow from the prop will allow you to maintain control despite zero air speed.
- 1. When you are near your desired altitude (allowing for any down line rolls) cut the throttle to a FAST IDLE.

Make sure you have enough rudder throw for a rapid pivot at the top.