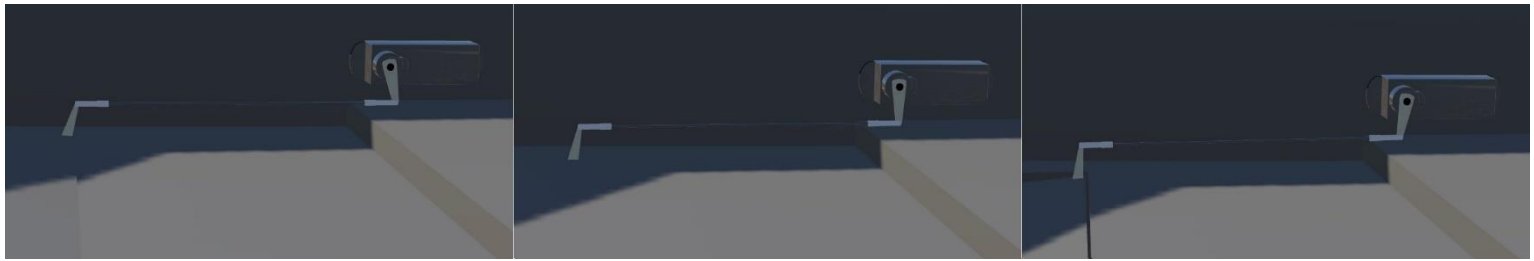
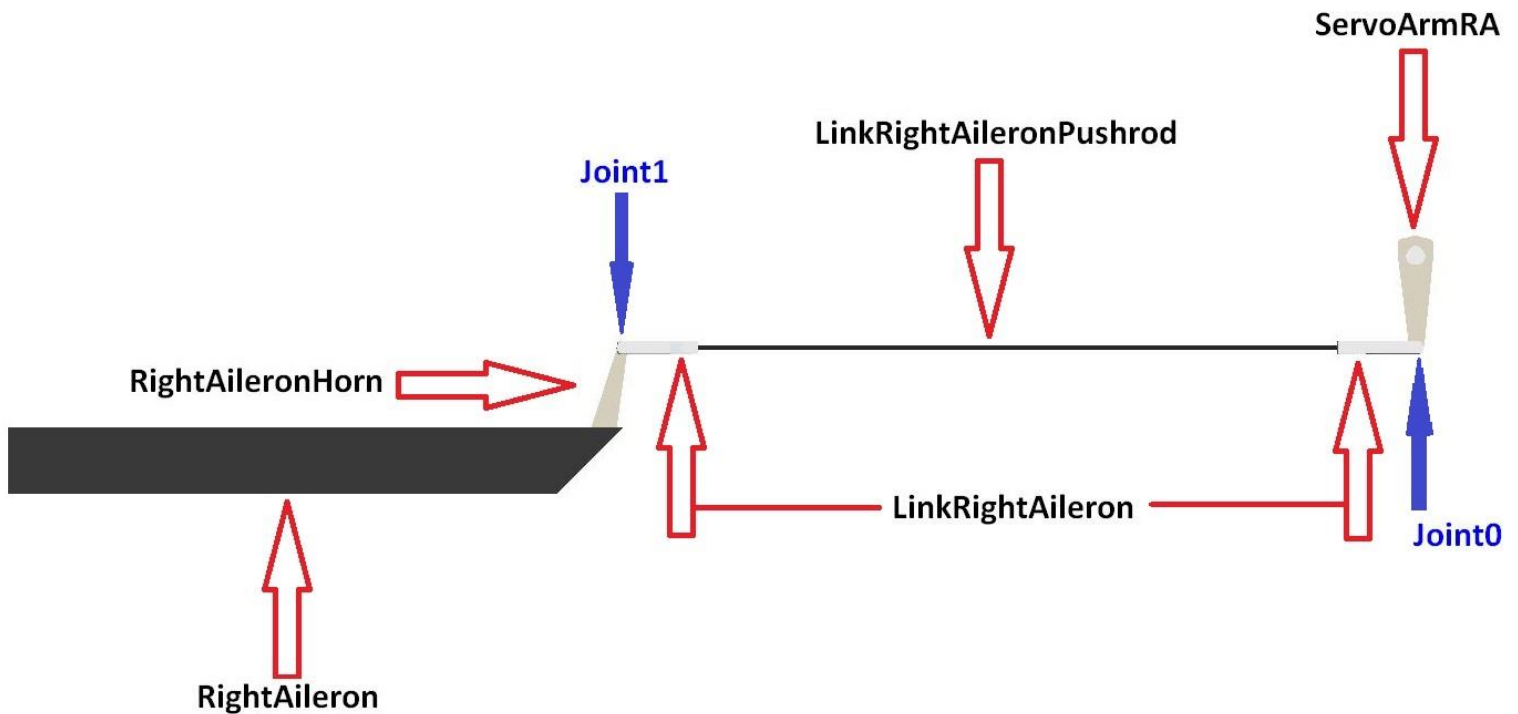


## hingebodygraphics and linkagegraphics



To move rudder, elevator, aileron and flaps like in 'real life' it is necessary that the parts that belong together should be connected to one another and also move together.



To realize such a function you need the **hingebodygraphics** and **linkagegraphics**.

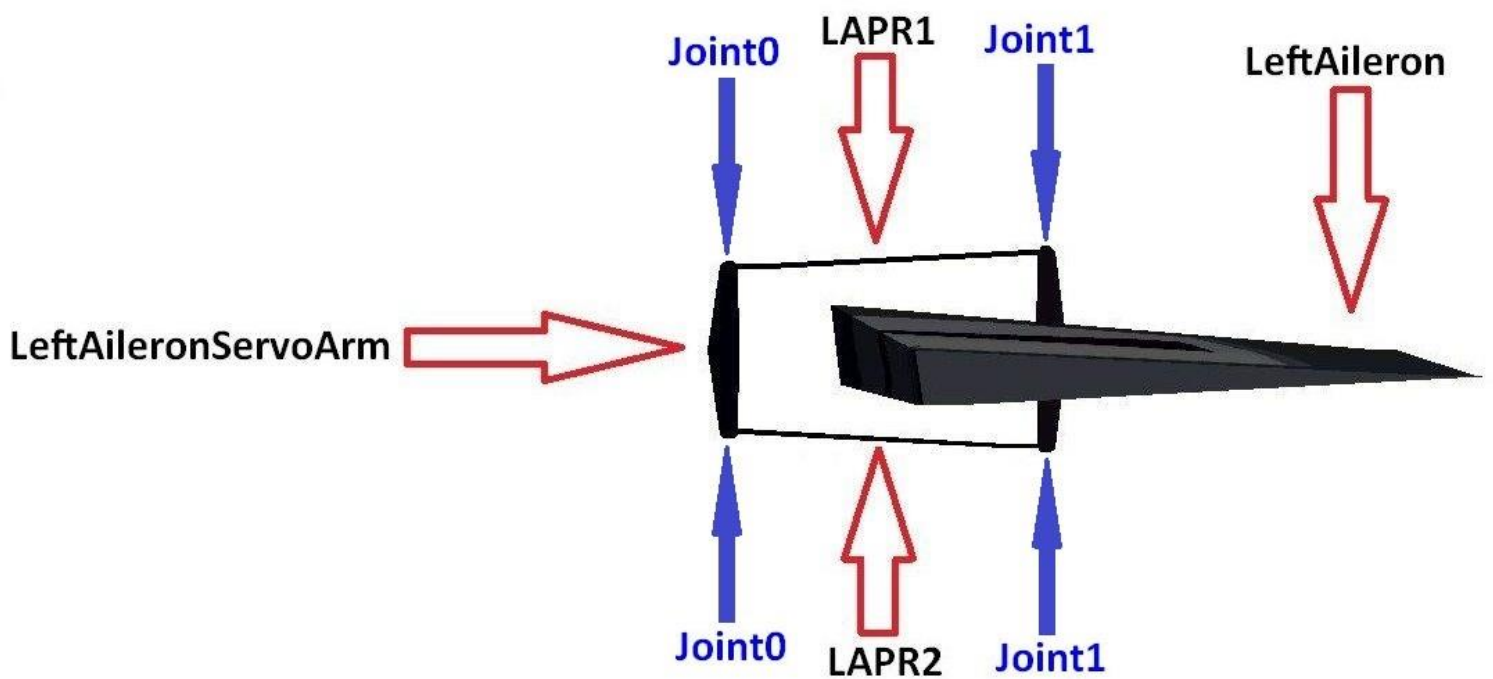
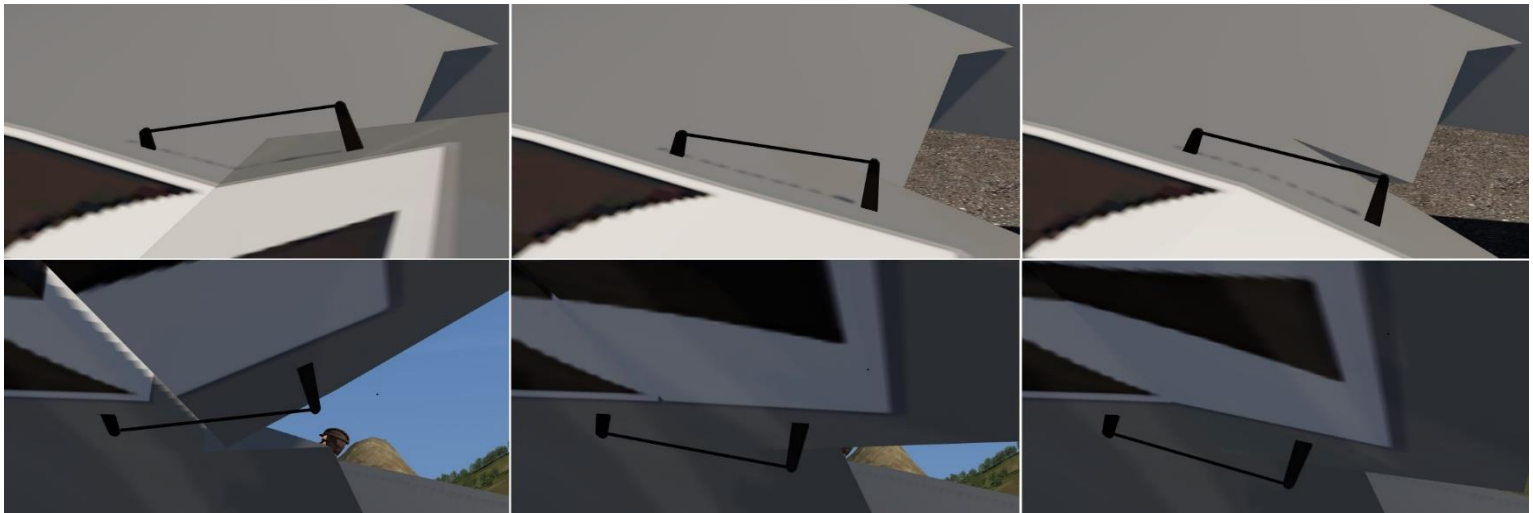
```
<[string8][object][hingebodygraphics]  
  <[string8][Name][RightAileron]>  
  <[string8][GeometryList][ RightAileron RightAileronHorn ]>  
  <[list_string8][ShowInside][ ]>  
  <[uint32][PositionID][RightWing.R]>  
  <[uint32][OrientationID][RightWing.Q]>  
  <[uint32][AngleID][ServoRightAileron.Output]>  
  <[vector3_float64][Axis][0 -1 0]>  
  <[vector3_float64][Pivot][[-0.049433 -0.141606 0.018712]>  
  <[float64][AngleMax][[-0.5]>  
>  
<[string8][object][hingebodygraphics]  
  <[string8][Name][ServoArmRightAileron]>  
  <[string8][GeometryList][ ServoArmRA ]>  
  <[list_string8][ShowInside][ ]>  
  <[uint32][PositionID][RightWing.R]>  
  <[uint32][OrientationID][RightWing.Q]>  
  <[uint32][AngleID][ServoRightAileron.Output]>  
  <[vector3_float64][Axis][0 1 0]>  
  <[vector3_float64][Pivot][[0.0085 -0.042 0.0385]>  
  <[float64][AngleMax][[-0.9]>  
>
```

```

<[string8][object][linkagegraphics]
  <[string8][Name][LinkRightAileron]>
  <[string8][GeometryList][ LinkRightAileron LinkRightAileronPushrod ]>
  <[list_string8][ShowInside][ ]>
  <[uint32][PositionID][ ]>
  <[uint32][OrientationID][ ]>
  <[string8][Graphics0][ServoArmRightAileron]>
  <[string8][Graphics1][RightAileron]>
  <[vector3_float64][Joint0][0.0086 -0.0415 0.031]>
  <[vector3_float64][Joint1][-0.0563 -0.0421 0.031]>
  <[uint32][AttachTo][1]>
>

```

Another example:



```
<[string8][object][hingedbodygraphics]
  <[string8][Name][LeftAileron]>
  <[string8][GeometryList][LeftAileron]>
  <[uint32][PositionID][LeftWing.R]>
  <[uint32][OrientationID][LeftWing.Q]>
  <[uint32][AngleID][ServoLeftAileron.Output]>
  <[vector3_float64][Axis][0.0344289906372783 0.999385728224084 -0.00654299822067768]>
  <[vector3_float64][Pivot][-0.17955 1.37815 0.0236]>
  <[float64][AngleMax][1]>
>
<[string8][object][hingedbodygraphics]
  <[string8][Name][ServoArmLeftAileron]>
  <[string8][GeometryList][LeftAileronServoArm]>
  <[uint32][PositionID][LeftWing.R]>
  <[uint32][OrientationID][LeftWing.Q]>
  <[uint32][AngleID][ServoLeftAileron.Output]>
  <[vector3_float64][Axis][0.0393270173666377 -0.999198441241633 -0.00747400330048695]>
  <[vector3_float64][Pivot][-0.146000 1.156000 0.012100]>
  <[float64][AngleMax][-1]>
>
<[string8][object][linkagegraphics]
  <[string8][Name][LinkLeftAileron]>
  <[string8][GeometryList][ LAPR1 ]>
  <[uint32][PositionID][]>
  <[uint32][OrientationID][]>
  <[string8][Graphics0][ServoArmLeftAileron]>
  <[string8][Graphics1][LeftAileron]>
  <[vector3_float64][Joint0][-0.145200 1.158000 0.040900]>
  <[vector3_float64][Joint1][-0.255500 1.158700 0.046700]>
  <[uint32][AttachTo][1]>
>
<[string8][object][linkagegraphics]
  <[string8][Name][LinkLeftAileron]>
  <[string8][GeometryList][ LAPR2 ]>
  <[uint32][PositionID][]>
  <[uint32][OrientationID][]>
  <[string8][Graphics0][ServoArmLeftAileron]>
  <[string8][Graphics1][LeftAileron]>
  <[vector3_float64][Joint0][-0.145300 1.158200 -0.015700]>
  <[vector3_float64][Joint1][-0.255600 1.158900 -0.020700]>
  <[uint32][AttachTo][1]>
>
```