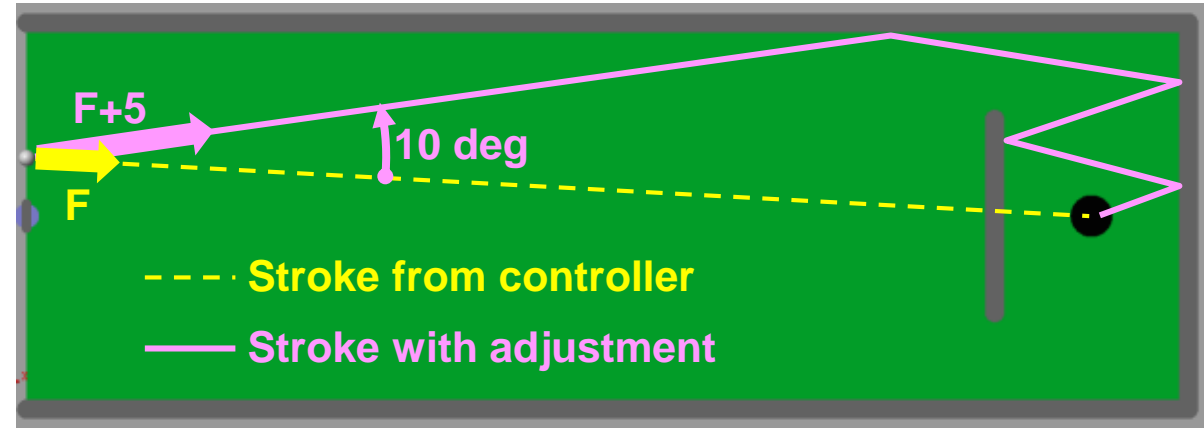# Playing a Hole

- ## Maximum of 10 strokes per hole

- ## For each hole, set up adjustments per stroke

  - Angle and force

Stroke 1 ... Stroke 10
Angle, Force;

... Hole_2.Open_Loop_Adjustments = [0   0; ...   0 0];

... Hole_2.Open_Loop_Adjustments = [10   5; ...   0 0];

- ## Control system

  - Stroke taken when putter velocity is <0.03 m/s for >0.7 seconds

  - Putter moves into position for next stroke when ball velocity is <0.015 m/s for >0.2 seconds

  - Simulation stops when ball stays in the hole for >0.2 seconds

- ## Ball path is plotted when simulation stops

Key Parameters
`Mini_Golf_Model_PARAM.m`

- Values you <u>must</u> change to play the game

```
%%% VALUES YOU *MUST* CHANGE %%%
% OPEN LOOP ADJUSTMENTS, PER HOLE
Mini_Golf_Param.Hole_1.Open_Loop_Adjustments = [20 3; -80 2;
Mini_Golf_Param.Hole_2.Open_Loop_Adjustments = [-30 2; 40 3;
Mini_Golf_Param.Hole_3.Open_Loop_Adjustments = [0 0; 0 0; 0
```

- Do not change:

```
%%% DO NOT CHANGE ANYTHING BELOW THIS LINE %%%
```

- Double-clicking on subsystem labelled "Play All" will play all holes and save score to Excel file "Mini_Golf_Results.xls"

`Play All`