

Technote Drake-004: How to simulate and plot a ball in flight phase

Overview

This document describes how to simulate and plot a ball in flight phase using Drake.

Procedure

Step 01.00: Simulate a ball in flight phase.

Step 01.01: Simulate a ball in flight phase using Drake and MATLAB R2015a.

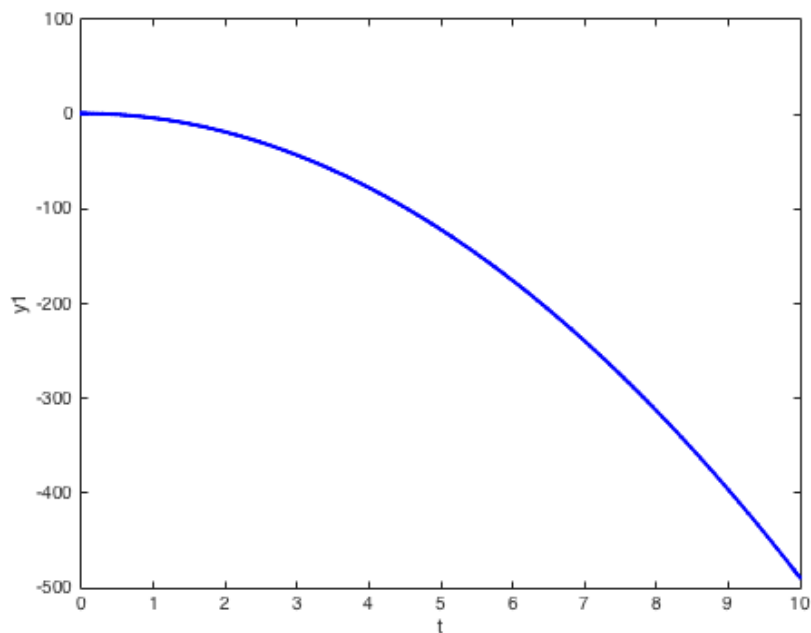
```
>> cd drake-distro/drake/examples/BouncingBall
```

Type the following code to simulate the ball in flight phase:

```
>> sys = BallFlightPhasePlant;  
>> traj = simulate(sys, [0 10], [0.99; 0]);
```

Plot the trajectory of the ball in flight phase:

```
>> fnplt(traj);
```



Step 01.02: Evaluate the location of the ball at a point in time:

```
>> traj.eval(5)
```

```
ans =  
-121.6350
```

Related Topics

None.

Related Links

None.