

## Week 14 MATLAB App Designer Activities

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Time required: 120 minutes

### Reading

Matlab A Practical Introduction to Programming and Problem Solving (Stormy Attaway)

Sections 13.3

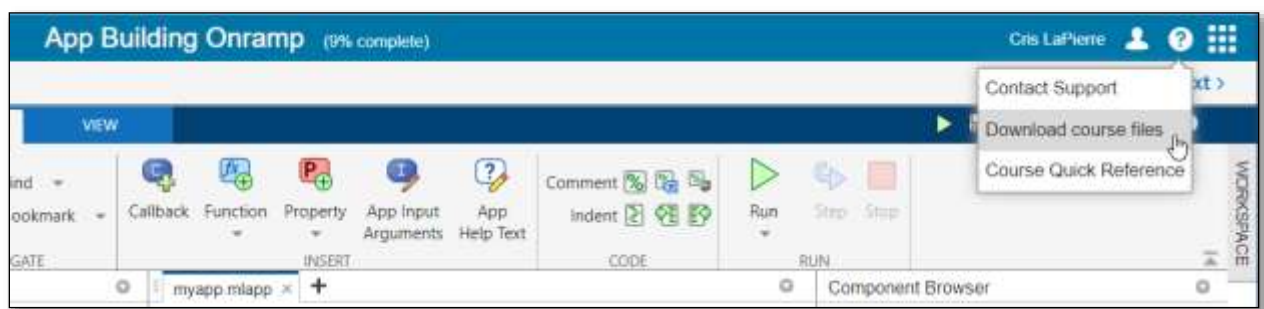
### Tutorial 1: App Building Onramp

Let's finish the semester with some GUI (Graphical User Interface) programs.

- [App Building Onramp](#)

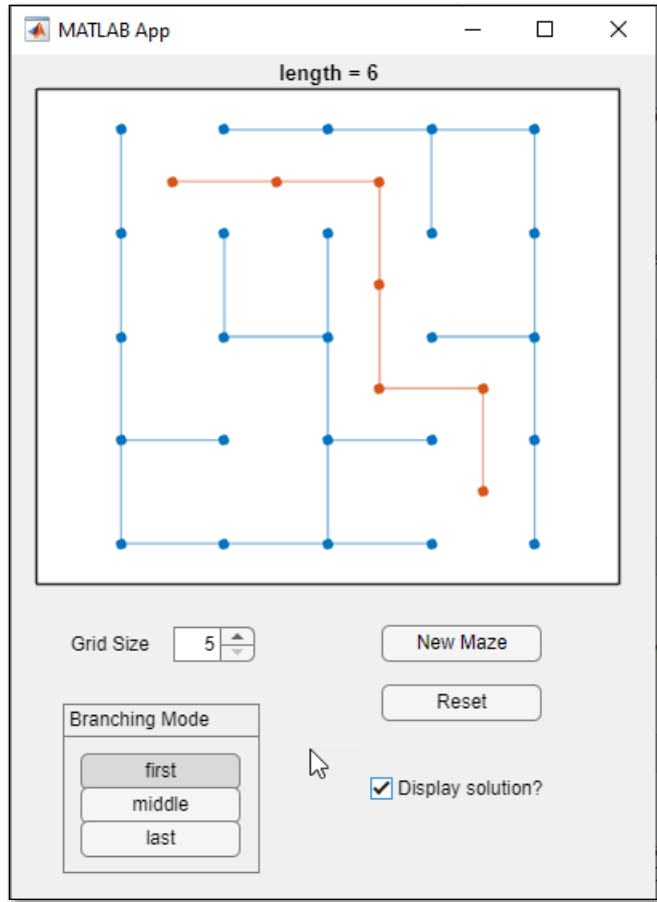
Create your own version of the Maze Generator while going through the tutorial.

1. To get the files Click the question mark icon in the top left and select Download course files.



2. Unzip the downloaded file. Copy **amaze.m** into your working folder.

Example run:



## Assignment 1: May the Force Be with You Calculator

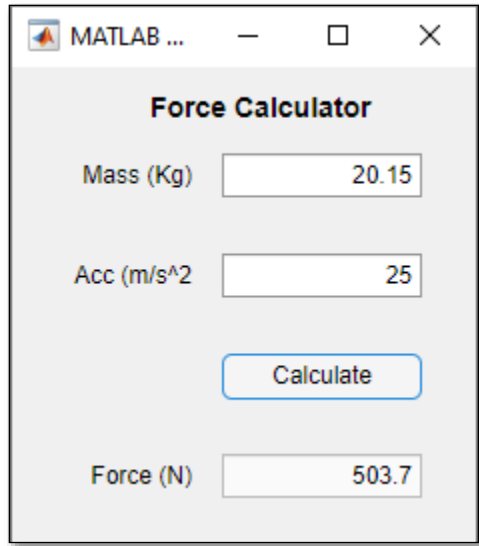
Watch this video: [Create a Force Calculator](#)

Create an App Designer program named ForceCalculator based on the example.

- Use Edit Fields (Numeric) to get data.
- The calculate button reads the input into variables
- Calculate the force.
- Use num2str to convert the force into a string.
- Display force with a label.

**$F=ma$**

Example run:



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### Assignment Submission

1. Submit properly named and commented script files.
2. Attach a screenshot showing the successful execution of each script including the Maze program.
3. Attach all to the assignment in Blackboard.