



## Use Case: 3. As a user, I want to be able to graphically view up to 10 tracks as a 2D plot.

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### User Story Description

The user selects the draw menu option after loading the desired tracks. The screen then goes to the draw UI and the user can select which loaded track files to display on the graph and table. After displaying this information, they quit the application or load different tracks.

### Identification of Actor(s)

The only actor in these cases is the user who is running the program.

### Pre-conditions

The only precondition for this use case is that the user has loaded at least one track.

### Scenarios

#### Basic/Normal Flow

Actor1	System
1. The user selects the draw option	
	2. The UI switches to the draw Screen
3. The user clicks the boxes of the tracks that they want to show	
	4. the graph and the table show the data from the selected Tracks
5. The user quits the program	

#### Alternate Flow 1: User Changes view before graph finishes plotting

This will be encountered if the user starts to load a graph but selects a different menu option before it finishes loading.

Actor1	System
1. The user selects the draw option	
	2. The UI switches to the draw Screen
3. The user clicks the boxes of the tracks that they want to show	
	4. The graph starts to plot the data
5. The user changes views	
	6. the system stops plotting, resets, and switches views

### Post-conditions

A Graph is displayed, and the view will switch when the user achieves their goal.

## **Additional Notes**

The only actor is the user, the boundary element is the GUI. The control element is the controller class of the GUI that is the boundary element. The Entity element is the Tracks Handler class which stores the information from the GPX files.

Nouns and verbs used to identify potential methods and objects are in red.

File

Load  
Metrics  
Draw  
Quit

Name

Distance

No content in table

☐ Name of File 1☐ Name of File 6☐ Name of File 2☐ Name of File 7☐ Name of File 3☐ Name of File 8☐ Name of File 4☐ Name of File 9☐ Name of File 5☐ Name of File 10

110

100

90

80

70

60

50

40

30

20

10

0