



## PURPOSE

The purpose of this activity is to set the stage for the following activity where you will see some code samples from fellow students, ask questions, and provide some feedback.



## LEARNING OBJECTIVE

Become more aware of ways to solve problems in R



## REQUIRED RESOURCES

- R, R Studio
- TriMet Data Dictionary



## TIME ALLOCATED

70 minutes out-of-class

## TASKS



Some things to think about: direction, time of day (peak and off peak), good color choices

Now, let's just plot the x-y coordinates of the data frame.

```
plot(trimet$x_coord, trimet$y_coord)
```

It should look similar to a section of TriMet's Route 19 (See the resources for this activity).

1. Can you write code to add the estimated load to this plot as a 3<sup>rd</sup> dimension? Based on the sample code in Activity 15, one easy way would be to subset the data into load ranges, then plot those as colors. We will share code snippets in the next class!

## DELIVERABLE



You will share the output and logic behind this code with the class in the following activity, so submit your completed and fully functioning R code to the dropbox.

## ASSESSMENT



This is a discovery exercise. Prepare a short write up to accompany your plot. Submit in pdf format to the class site. You will be assessed based on (see following page):

### Activity 16 Grading Rubric

	Excellent (10)	Good (8)	Poor (6)	NONE
<b>Discussion</b>	Insightful discussion or commentary relating to the question at hand demonstrating student understanding of the task.	Discussion was competent regarding the lessons, but lacked in insightful discussion.	The discussion did not address the lessons or applicability of the activity.	Did not submit
<b>Graphic</b>	Intent of the graphics easily understood. Graphic includes legend, axes labels, title, etc. Information contained within the data was presented using creative formatting.	Graphic was missing 1 or 2 labels, legends, or other components. Graphic was relatively easy to understand with direct communication of information contained within the data.	Graphic is difficult to understand due to lack of labeling and visual complexity.	Did not submit
<b>Quality</b>	Document is typed, formatted, contains appropriate grammar and language.	Document has minor grammatical errors or inappropriate language.	Document was unorganized, contained inappropriate language and/or grammatical errors.	Did not submit