

These two weeks we are going to be focused on **tree maps, area charts, and stacked area charts** and using various tools to create these visualizations. You must consolidate all the charts into ONE document with each chart labeled with the type of chart and technology - for example: Python - Bar Chart. Failure to label and consolidate the charts will result in points being taken off or a 0 for the assignment.

[Sample Datasets](#) (click on the Downloads tab.)

You may also download them directly from this link:

[Exercise 3.2 Datasets](#) (click the link to download a folder containing the datasets.)

You need to submit:

1 tree map, 1 area chart and 1 stacked area chart using Tableau or PowerBI

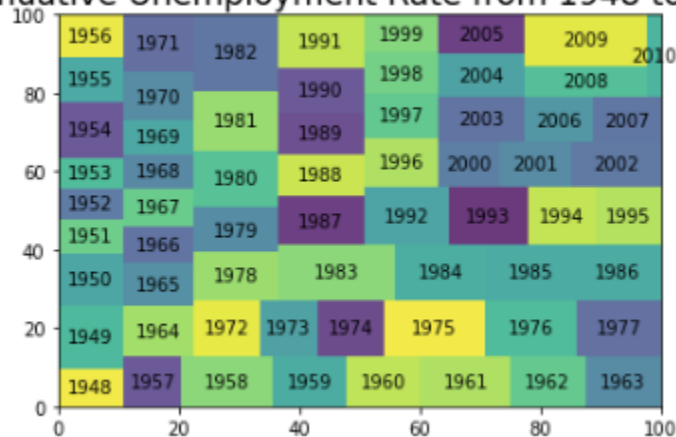
1 tree map, 1 area chart and 1 stacked area chart using Python

1 tree map, 1 area chart and 1 stacked area chart using R

You can use your own data or the datasets provided

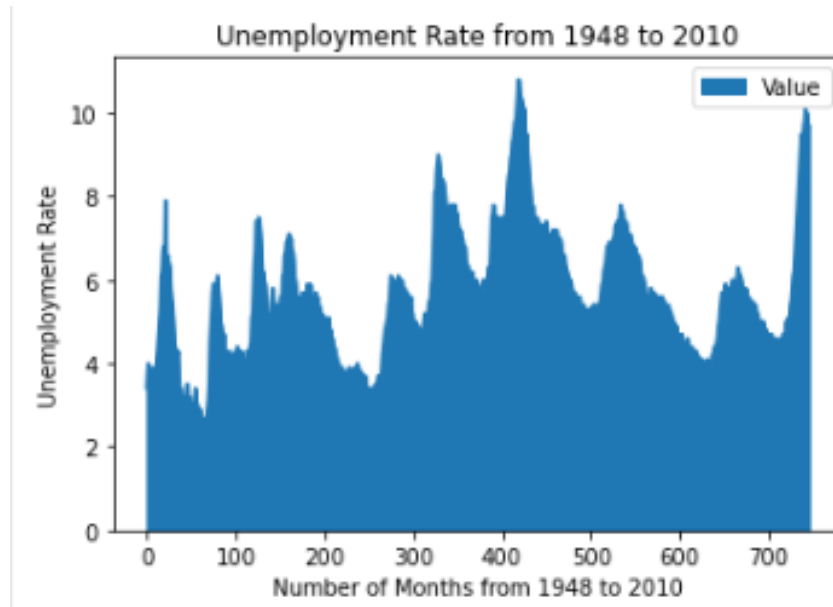
1. Python: Tree Map

Cumulative Unemployment Rate from 1948 to 2010



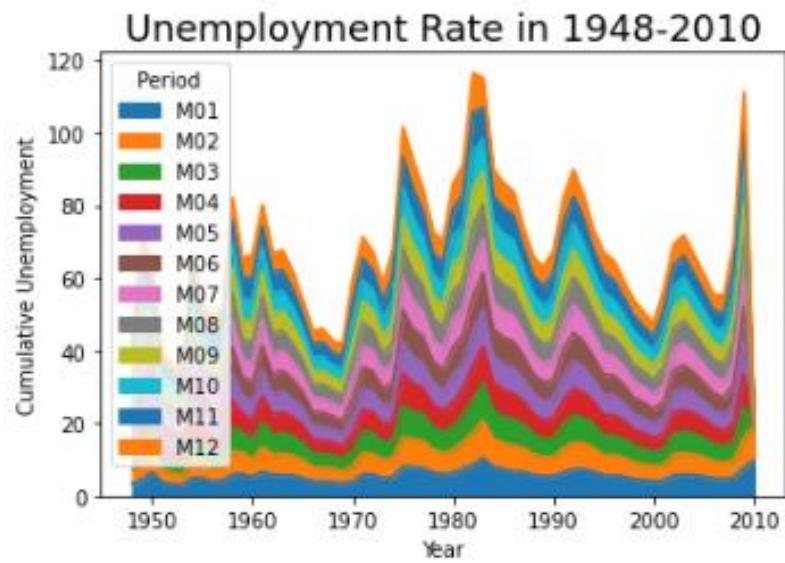
a.

2. Python: Area Chart



a.

3. Python: Stacked Area Chart



a.

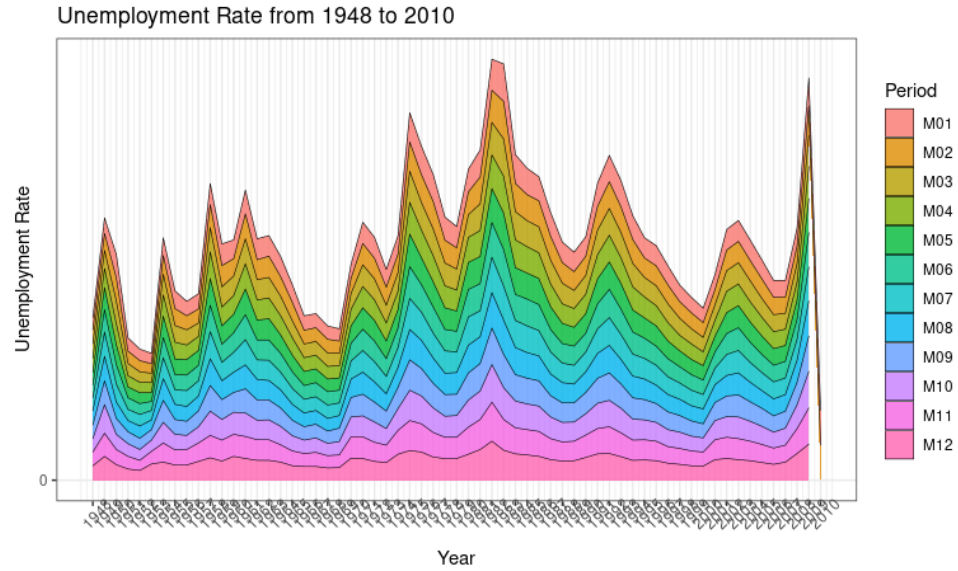
4. R: Tree Map

5.4	5.5	3.8	6.1	4.4	7.2	5.3	6.6					
	5.7	5.2	7.4	4.9	4	3.5	7.5	4.8	3.7			
5.6		5.8	4.2	4.3	6.9	6.3	7.3	7.6	7.1	4.1		
		5.9	6	5.1	3.9	7	6.8	6.4	10.1	8.6	6.5	2.9
			5	4.6	4.7	3.4	7.8	6.7	3	9.7	9.8	10.4
								8.8	2.6	2.7	3.2	10
							8.4	9.5	10.8	8.1	2.5	
							7.9	8.9	8.5	8.9	9.6	
							9.4	3.6	8.2	9	10.3	2.8

5. R: Area Chart



6. R: Stacked Area Chart



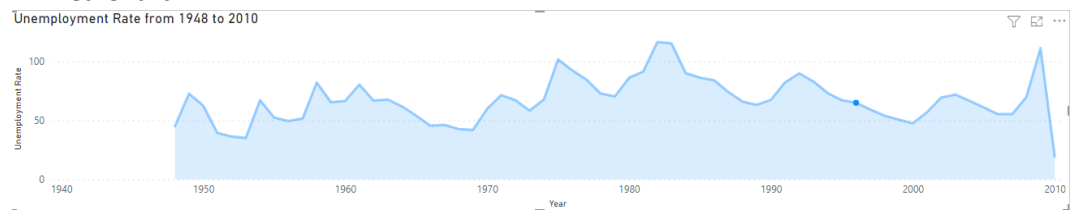
a.

7. Power BI: Tree Map



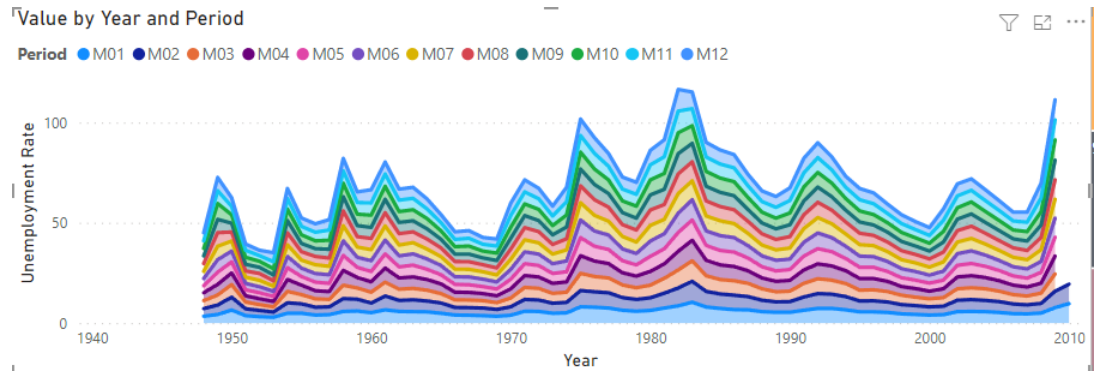
a.

8. Power BI: Area Chart



a.

9. Power BI: Stacked Area Chart



a.