

CGT 270 Data Visualization  
Makeover Monday #4 (2021 Dataset)

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**Date:** 11/09/2021

**Lab section:** Tuesday

**Show your work!!!**

**Acquire**

Week: 4

Date: 1/25/2021

Year: **2021**

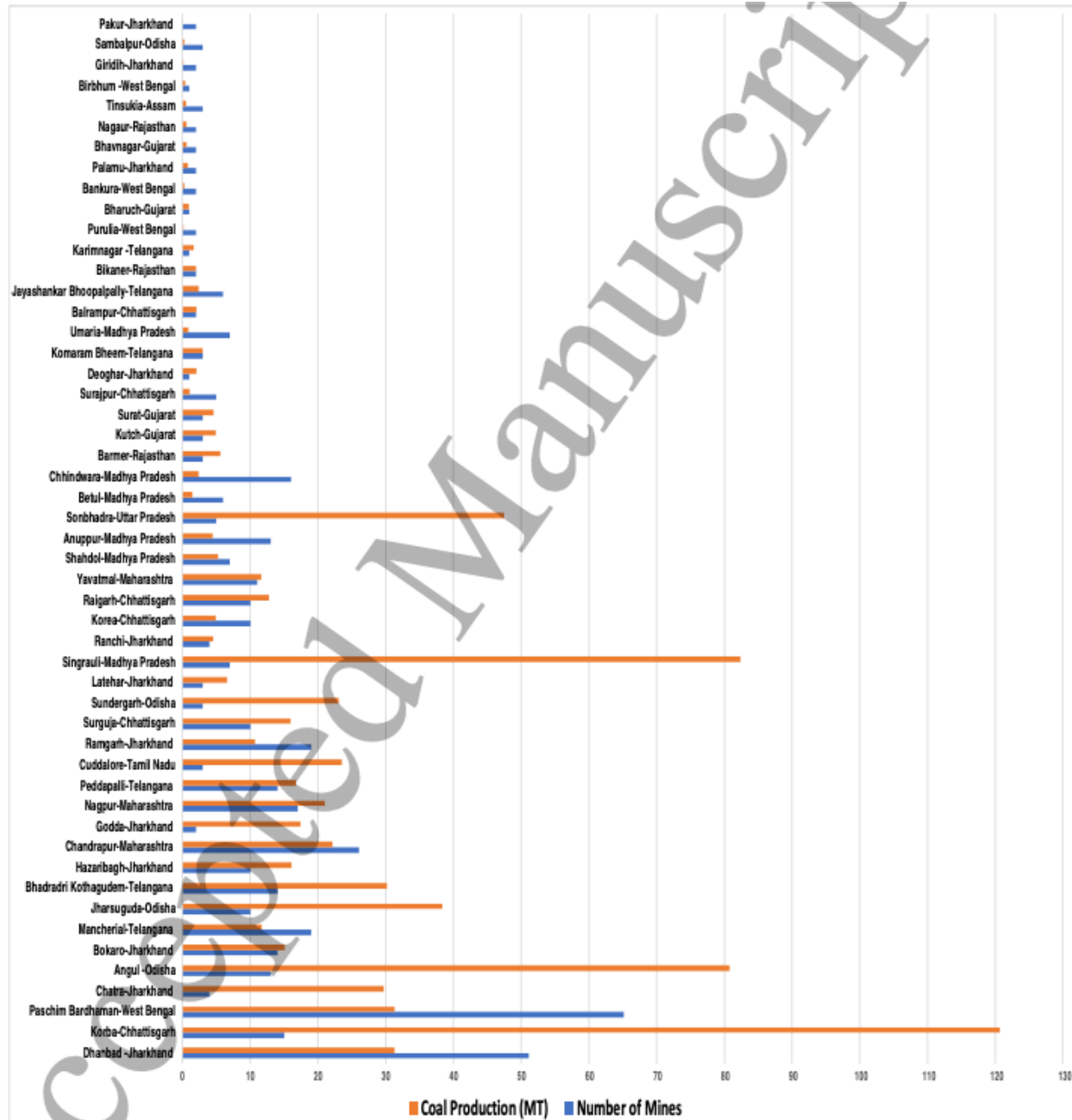
Data: Indian Coal Mine Location and Production

**Source Article/Visualization:**

Sandeep Pai and Hisham Zerriffi. A novel dataset for analysing sub-national socioeconomic developments in the Indian coal industry, IOPSciNotes, <https://doi.org/10.1088/2633-1357/abdbbbhttps://www.makeovermonday.co.uk/data/data-sets-2018/>

**Represent**

CGT 270 Data Visualization  
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### Critique

This visualization shows effectively the top producers of coal within the country, though it is hard to discern what the independent variables are, and they appear to be listed not in any logical order. Because this data is geographical, it missed an opportunity to utilize a map visualization.

Based on your knowledge of the Periodic Table of Visualization Methods (discussed in class this week), discuss which one of the 6 categories does the visualization you provided in the Represent stage falls in. Identify the method most closely related to the visualization in the Represent Stage and discuss the characteristics: overview, detail, detail AND overview, divergent thinking, convergent thinking. Refer to Week 10 Readings to assist with categorizing the visualization.

CGT 270 Data Visualization  
Makeover Monday #4 (2021 Dataset)

**Mine**

In which states are coal production the greatest? In which states are the number of mines the greatest?

**Filter**

**Show** (display, list, make it visible) the filtered data.

State Name

Mine Type

Mine Name

Coal Production

**Stakeholders**

- The audience may be for government regulators, coal importers, or those who wish to stop coal production.

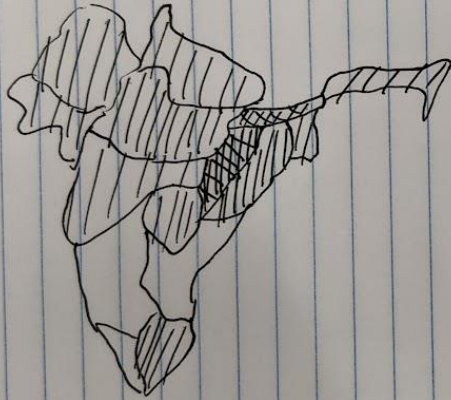
**What to submit:** This document in PDF format only (if you do not know how to do this, ask).

**Choose the best layout** for your makeover visualization: Portrait or Landscape, Remove the page of the layout that you DO NOT choose. No blank pages!

**NEW Sketch your Makeover**

In the space below, sketch out your ideas for refined visualization. You must use pen/pencil and paper to sketch out your idea, then take a photo of your sketch and include it in the space below.

Coal Production in India.

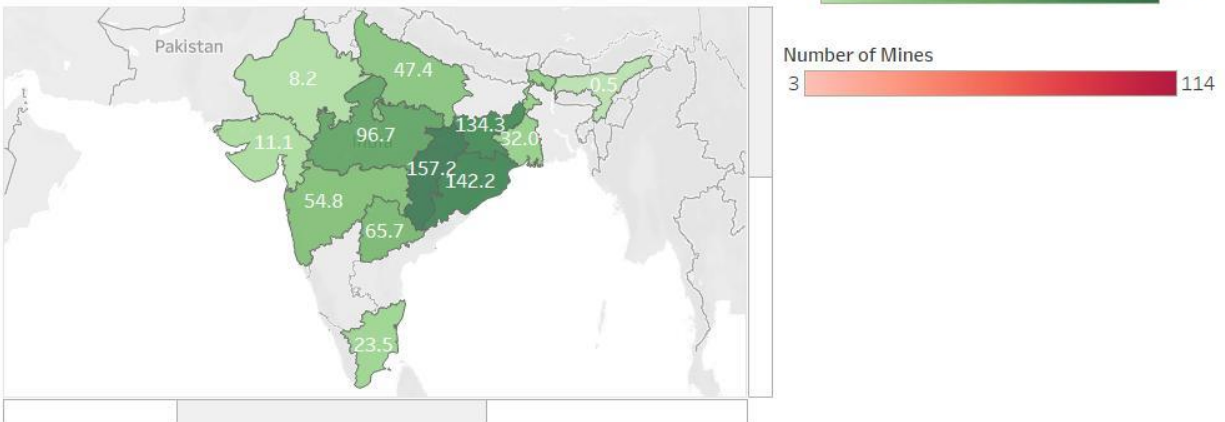


\* The darker the state,  
the higher the coal  
production.

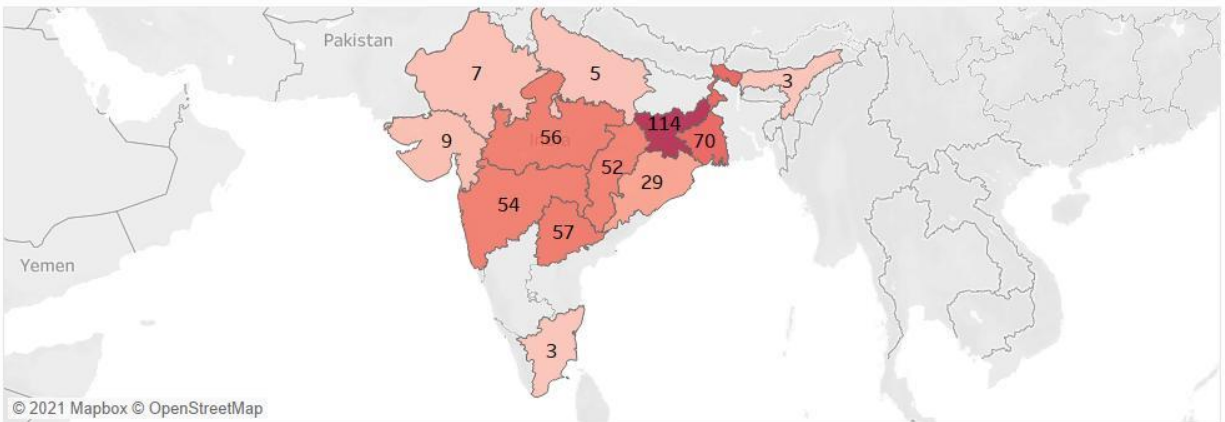
CGT 270 Data Visualization  
Makeover Monday #4 (2021 Dataset)

**Refine (Makeover – Portrait View)**

Coal Production in India (Millions of Tons, 2020)



Number of Coal Mines in Each State



This dataset shows the coal production in green and number of coal mines in red. Because people typically associate production value negatively but the number of resources used to produce them negatively, I have made the production green and number of mines red, as those colors respectively have a positive and negative connotation. It appears as if the south of India sees very little coal production and the number of coal facilities, and the north, especially the states close to Bangladesh have high coal production and mining facilities.

CGT 270 Data Visualization  
Makeover Monday #4 (2021 Dataset)

## Resources

Data Visualization Checklist:

[http://stephanieevergreen.com/wp-content/uploads/2016/10/DataVizChecklist\\_May2016.pdf](http://stephanieevergreen.com/wp-content/uploads/2016/10/DataVizChecklist_May2016.pdf)

How to give constructive criticism:

<https://personalexcellence.co/blog/constructive-criticism/>

Sample Makeovers

<https://www.makeovermonday.co.uk/gallery/>

## Grading Rubric

Excellent (11-15 pts)	Good (6 -10 pts)	Fair (2-5 pts)	Needs Improvement (0 - 1 pt)
Meets <b>ALL</b> or most of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Meets <b>MOST</b> of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Consistently meets <b>SOME</b> of these: Makeover is esthetically pleasing (color, perception), best practices followed (insightful), Correct dataset downloaded; provided an interesting point of view of the data; critiqued previous makeover, critique is constructive (indicates one thing that is done well, and one thing that could be done differently, what will be done to improve the visualization), assumptions (more than one) are listed.	Little to no evidence of the understanding of the data visualization process.  Lackluster makeover or no makeover.  Little effort.
Sketch included: hand drawn [5 pts]	Sketch included, but was generated by computer [2 pts]	No sketch included. [0 pts]	
More advanced chart types used [5 pts]	More advanced chart types used, followed most best practices [3 pts]	Basic chart types used in the makeover [2 pts]	Little to no improvement in visual representation of the data [0 pts]