Chart, bubble chart

Description automatically generated

Industry by Color, Size by Amount

Chart, bubble chart

Description automatically generated

Split PPP | PPS

Chart, scatter chart

Description automatically generated

X-Axis is State – ex. VA compared to U.S. States -> Each Industry by Color Size by SUM Amount, y-axis by Jobs Reported

Alt: Compare to Chart with Actual Industry Sector Size by State (<https://data.bls.gov/cew/apps/table_maker/v4/table_maker.htm#type=6&year=2021&qtr=2&own=5&area=51000&supp=0> )

Or X-axis by Industry (21) -> Each Industry SubSector by Color, Size by Sum Amount

Chart, bubble chart

Description automatically generated

Industry Breakdown, Order by SUM Amount DESC, Sub-Sector Color, Size by SUM Amount

Alt : Color Gradient for SUM Amount Change % by Quarter

Map

Description automatically generated

Cartogram with area defined by normalized SUM Amount by State (rescaled around centroid)

Overlay State Choropleth by County or ZIP

A picture containing ice

Description automatically generated

Alt: State Choropleth by County, All Industry or Select Industry SUM Amount

Chart, histogram

Description automatically generated

Industry (21) SUM Amount by State

* Compare to Chart with Actual Industry Sector Size by State (underlay)

Annual Averages (2020) <https://data.bls.gov/cew/apps/table_maker/v4/table_maker.htm#type=6&year=2020&qtr=A&own=5&area=51000&supp=0>

Alt:

Averages (2021) by Quarter

Table

Description automatically generated

Option (by State) To Select Pyramid : (respectively)

* Overlay (Loan $ by Industry OR JobsReported OR #Loans)
* Underlay State Industry (Quarterly Wages, OR Month Employment, OR Quarterly Establishments)

Averages by Industry, Quarter - Option to Select Quarter

Table

Description automatically generated

Table Build: <https://data.bls.gov/cew/apps/table_maker/v4/table_maker.htm#type=6&year=2021&qtr=1&own=5&area=51000&supp=0>

Table

Description automatically generated

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

In-depth Analysis: by 4-Digit Sector by Quarter 2020 Q2 – 2021 Q2

Requires Alt Display (# unique 4-digits = 297)

Table

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<https://data.bls.gov/cew/apps/table_maker/v4/table_maker.htm#type=8&year=2021&qtr=2&own=5&area=51000&supp=0>

Graphical user interface, application

Description automatically generated

Data by Establishment Size Class

\*Data by establishment size class is only available for the private sector, for the first quarter of each year.

Table

Description automatically generated

Table

Description automatically generated

<https://data.bls.gov/cew/apps/table_maker/v4/table_maker.htm#type=15&year=2020&size=0,1,2,3,4,5,6,7,8,9&st=51&agg=64&supp=1>

Numbers in (\_) indicate records with suppressed employment and wages.

(1) Data do not meet BLS or State agency disclosure standards  
(2) One or more components of this calculation do not exist or do not meet BLS or State agency disclosure standards.

* Make up for these by determining weight Table

  Description automatically generated
* Example: Total – Available / ratio of count for blank fields
* 20**20 Q1**
* Table

  Description automatically generated
* 2021 Q1
* Table

  Description automatically generated

Compare to Table with Loan SUM Amount for Industry by Jobs Reported Range

Choropleth:

Polygon boundaries - [link](https://richmond.bootcampcontent.com/Richmond-Boot-Camp/ur-rich-data-pt-11-2020-u-c/-/blob/master/17-Mapping-Web/2/Activities/04-Par_MoneyChoropleth/Solved/static/js/logic.js)

<https://rapidapi.com/VanitySoft/api/boundaries-io-1/>

A picture containing map

Description automatically generated

<http://www.city-data.com/city/Virginia.html> - by Census Block GroupsGraphical user interface

Description automatically generated

Map

Description automatically generated with medium confidence

Reports based on officiated state data insights – Agg address data in area

Query for:

* State Boundaries
* Neighborhood Boundaries \*
* Zip code Boundaries
* County Boundaries
* <https://rapidapi.com/VanitySoft/api/boundaries-io-1/>

notebook ref example: poly\_test.ipynb

option:

* Dataframe with boundary coordinates in column for each Loan row or Label for Each
* or dataframe input with aggregate value properties for each neighborhood/state/etc.

Table

Description automatically generated

County Divisions

Diagram

Description automatically generated

<https://towardsdatascience.com/mapping-census-data-fbab6722def0>

<https://towardsdatascience.com/mapping-geograph-data-in-python-610a963d2d7f>

<https://github.com/mggg-states/geodata-prep-template>

<https://stackoverflow.com/questions/60272673/getting-fips-block-codes-from-16million-lat-long> - getting FIPS (block) codes for coordinates

Table

Description automatically generated