# SKYSCRAPERS

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https://cpang4.github.io/cs360-finalproject/

#### PROJECT OBJECTIVES

- Which are the tallest buildings in the US? (and how tall are they, relative to other tall buildings in this dataset?)
- Where are the tallest buildings in the US? Does a certain city/state have the most tall buildings?
- What are the purposes of these skyscrapers (casinos, offices, hotels, residential, etc)?
- Is there a constant positive trend for the amount of skyscrapers constructed, or has construction halted?
- How do US skyscrapers compare to other skyscrapers in the world?

#### **NOTES**

- We are defining a skyscraper as any building with height ≥ 130m.
- The skyscrapers used for these visualizations are only completed ones.
- Because most skyscrapers are multipurpose, for simplicity, we used a main purpose (what most of the floors occupy).

#### THE DATA

**CORGIS** Skyscraper dataset + SkyscraperCenter

#### DATA PROCESSING

- Adding a "main" purpose column
- Adding "State" column
- Removing uncompleted buildings and buildings < 130m</li>
- Adding missing heights

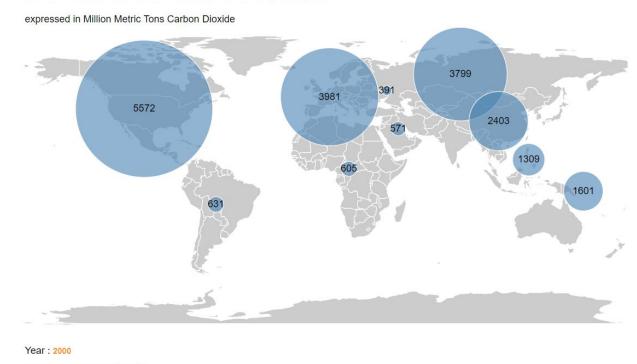
## **DEMO**

https://cpang4.github.io/cs360-finalproject/

### MAP WITH SLIDER

 Inspiration from a <u>block by</u>
 <u>PBrockmann</u>

#### **World Carbon Dioxide Emissions by Region**



#### **ICON ARRAY**

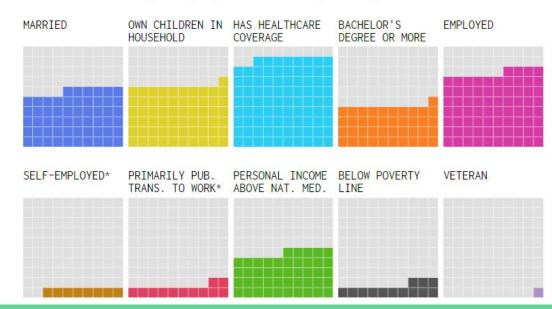
 Inspiration from <u>FlowingData</u> by Nathan Yau



There are about this many people in this group...

29,248,303

...and of these people, here are their percentage breakdowns.



#### **GLOBAL COMPARISON**

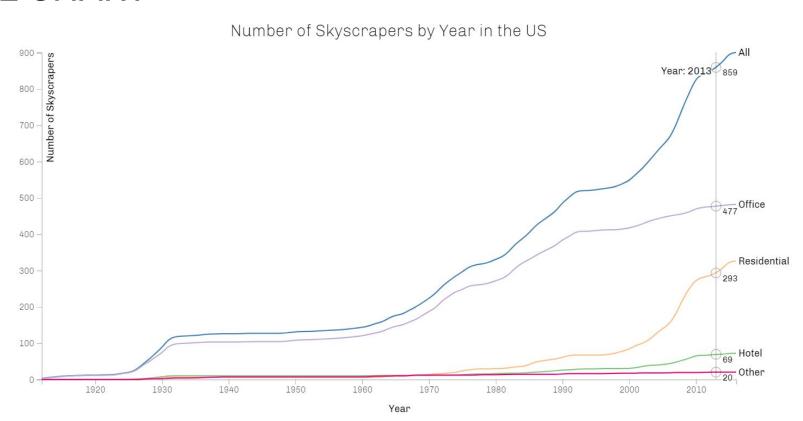
Sources for images from Skyscraper Center



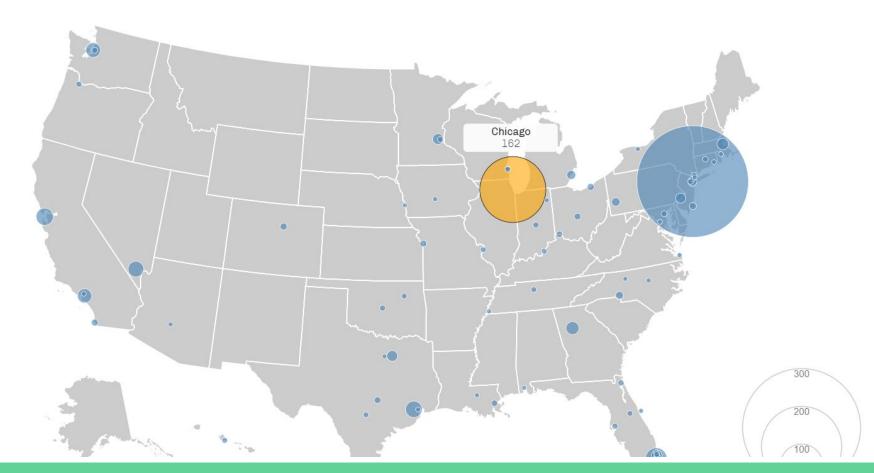
#### CONCLUSION

- Most main purposes are office, residential, and hotel.
- Tallest buildings are in New York and Chicago
- Globally, China has the most # of tallest skyscrapers. In Top 20, U.S. has 4 skyscrapers.
- It would be unlikely for skyscraper construction to halt, given the trends in recent years.

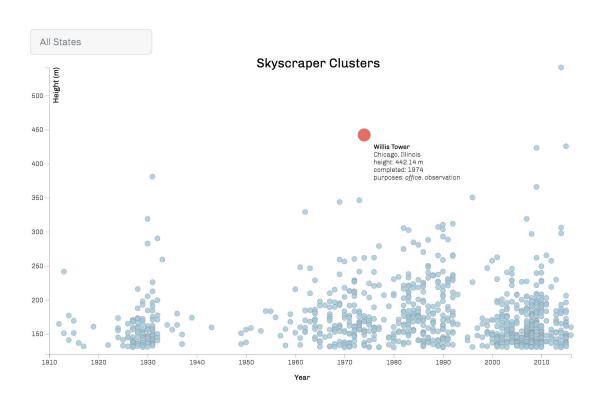
### LINE CHART



Year: 2016

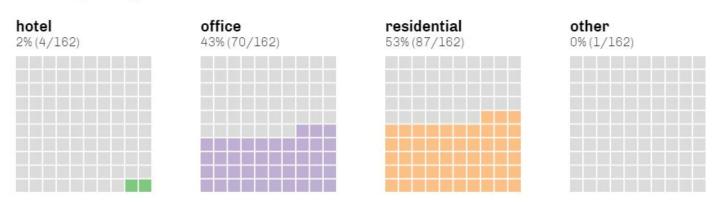


### **SCATTERPLOT**



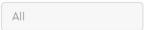


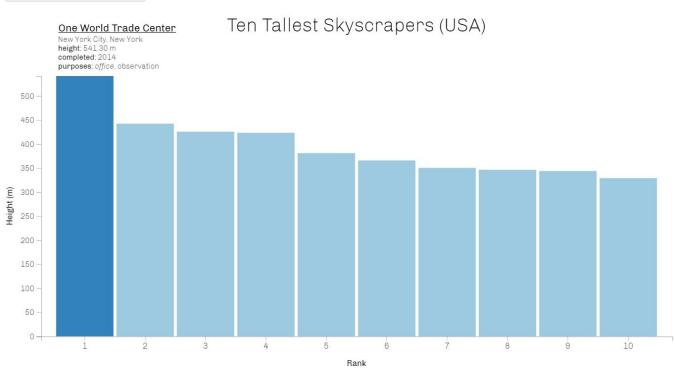
total skyscrapers: 162



other 1 are hospital

### **BAR CHART**





#### Tallest Skyscrapers in the World

