Class 18: Stats and data science

Programming for VR I

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Visualizing climate change

https://web.meteo.mcgill.ca/cmccray/climate-changemontreal-winter/

Demo project

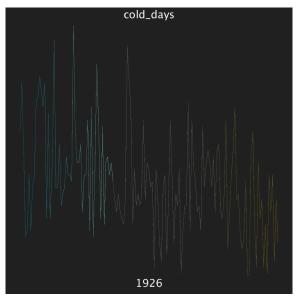


Figure 1: Cold days as a function of time

Dicts

```
a = {'abc': 10, 'def': 5}
a['ghij'] = "ok"
print(a['abc'])
>>> 5
print(a['ghij'])
>>> "ok"
```

Dicts

- ➤ A dict works a lot like a list: it can grow, shrink, contain heterogenous data in slots
- However: it doesn't have an order
- Instead, it has keys which can be strings (or ints but that's less common)
- You define them with curly brackets
- You can't append to a dict, you have to assign

What's a dict good for?

- ► Store a big quantity of data with meaningful names.
- ► columns['snow_cm']
- ▶ columns['max_temp']

Project: modify the visualization in some way

- Visualize the number of snow days with actual snow particles
- Download and visualize future climate data
- Display an iconic photo for each decade
- Display all of the current data simultaneously, with labels and colors