Prof. Abby Stylianou

Logistics

Homework 1 due Thursday

Post questions / discuss on Piazza

• Office hours tomorrow (1:30-2:30 in Ritter 107)

Review from Last Class

• Lists + list comprehension

- Control Structures
 - for loops
 - while loops
 - if / else
 - if / elif / else
 - Loop control statements
 - Break, continue, pass

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Name	Code	Area (m2)
California	CA	163696
Nevada	NV	110567

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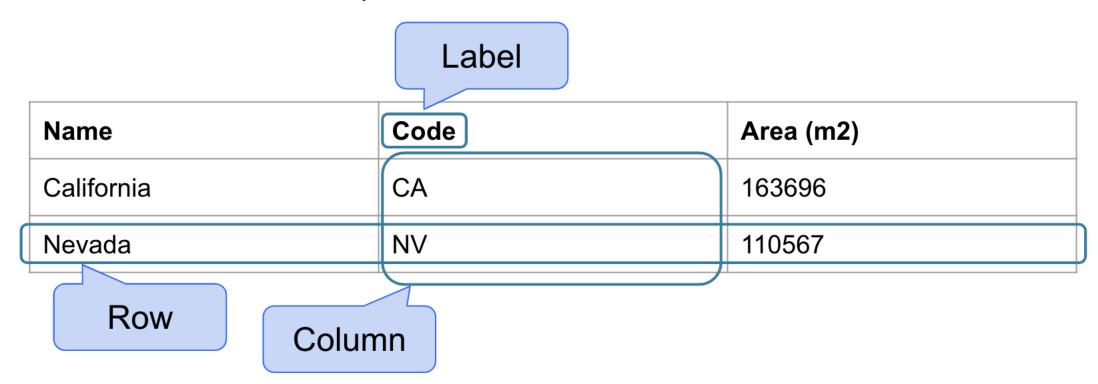


 Table.read_table(filename) – reads a table from a spreadsheet

• **Table ()** – creates an empty table

```
t = Table.read_table('table_file.csv')
```

• t.select(label) - constructs a new table with just the specified columns

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Demo: open a new Jupyter Notebook at cs1070.com

Discussion Question

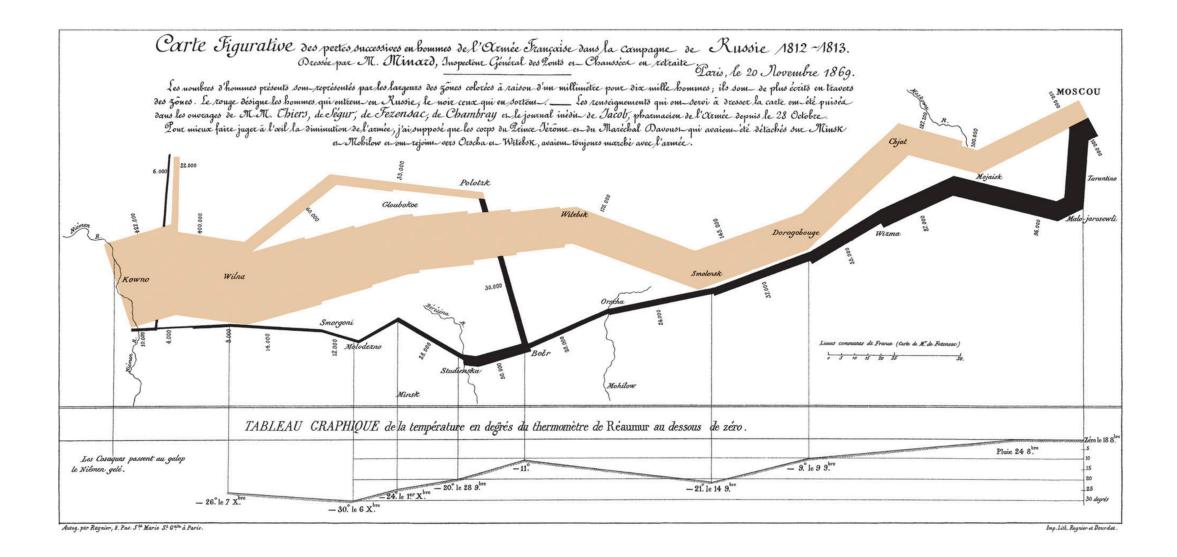
nba table:

How would you display just the row corresponding to the player who had the highest salary?

Charles Joseph Minard, 1781-1870



- French civil engineer who created one of the greatest graphs of all time
- Visualized Napoleon's 1812 invasion of Russia, including:
 - Number of soldiers
 - Direction of the march
 - Latitude and longitude of each city
 - Temperature on the return journey
 - Dates in November and December



Some of Minard's data

Longitude	Latitude	City	Direction	Survivors
32	54.8	Smolensk	Advance	145000
33.2	54.9	Dorogobouge	Advance	140000
34.4	55.5	Chjat	Advance	127100
37.6	55.8	Moscou	Advance	100000
34.3	55.2	Wixma	Retreat	55000
32	54.6	Smolensk	Retreat	24000
30.4	54.4	Orscha	Retreat	20000
26.8	54.3	Moiodexno	Retreat	12000

Open your Jupyter notebook back up