mapping.py
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```
1 # === mapping.ipynb ===
2
  # formatting
3
4
  #%%
  import pandas as pd
6
7
  #%%
8
  # Mapping lets you format an entire DataFrame
9
10 | file = "Resources/sample_data.csv"
11 | file_df = pd.read_csv(file)
12 | file_df.head()
13
14
15 #%%
16 # Use Map to format all the columns
17
18 # Format is almost akin to concatenating strings. Whatever is outside of the
  # curly brackets is added before/after the initial value which is modified
19
  # by whatever is contained within the curly brackets.
20
21 | #
  # "${:.2f}" converts values into a typical dollar format. This places a dollar
22
23 # sign before the value which has been rounded to two decimal points.
24 # Likewise "{: ,}" will split a number up so that it uses comma notation.
25 # For example: the value 2000 would become 2,000 using this format string
26 | #
27 # Formatting only really works once and - can also change the datatype of a
28 # column (to string => object) - will return errors if the same code is run
29 # multiple times without restarting the kernel. This is because, depending on
  |# what the value is being formatted to - i.e., it's impossible to apply a 2
30
31 # floating-point format to a string.
32 # For this reason apply formatting near the end of an application
33 || # -----
34 file_df["avg_cost"] = file_df["avg_cost"].map("${:.2f}".format)
  file_df["population"] = file_df["population"].map("{:,}".format)
36 file_df["other"] = file_df["other"].map("{:.2f}".format)
  file_df.head()
37
38
39
  #%%
40
  # Mapping has changed the datatypes of the columns to strings
41
42 file df.dtypes
43
44
  #%%
45
```