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 note @20  

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File Reading

Since the programming project suggests it, I'll put forward my short python snippet for simply loading data from a CSV file.

Python Code

```
from typing import List
import csv

def read_csv(file_path: str) -> List[dict]:
    entries = []
    with open(file_path, mode='r') as file:
        csvFile = csv.DictReader(file)

        for entry in csvFile:
            entries.append(entry)

    return entries
```

run code snippet

Example resources.csv

```
Resource,Weight,Factor
Population,0.3,
MetallicElements,0.25,
Timber,0.15,
MetallicAlloys,0.2,
Electronics,0.4,
Housing,0.2,
```

(Factor was intentionally left blank for now)

Example state.csv

```
Country,Population,MetallicElements,Timber,MetallicAlloys,Electronics,Housing
Atlantis,1000,10000,500,1000,100,500
Europa,1000,10000,500,1000,100,500
Pandora,100,1000,50,100,10,50
```

Neuronia,100,1000,50,100,10,50
Brick,100,1000,50,100,10,50

Python Usage

```
resources = read_csv("resources.csv")
state = read_csv("state.csv")
print(resources)
print(state)
```

run code snippet

Output

```
[{'Resource': 'Population', 'Weight': '0.3', 'Factor': ''}, {'Resource': 'MetallicElements', 'Weight': '0.25', 'Factor': ''}, {'Resource': 'Timber', 'Weight': '0.15', 'Factor': ''}, {'Resource': 'MetallicAlloys', 'Weight': '0.2', 'Factor': ''}, {'Resource': 'Electronics', 'Weight': '0.4', 'Factor': ''}, {'Resource': 'Housing', 'Weight': '0.2', 'Factor': ''}]
```

```
[{'Country': 'Atlantis', 'Population': '1000', 'MetallicElements': '10000', 'Timber': '500', 'MetallicAlloys': '1000', 'Electronics': '100', 'Housing': '500'}, {'Country': 'Europa', 'Population': '1000', 'MetallicElements': '10000', 'Timber': '500', 'MetallicAlloys': '1000', 'Electronics': '100', 'Housing': '500'}, {'Country': 'Pandora', 'Population': '100', 'MetallicElements': '1000', 'Timber': '50', 'MetallicAlloys': '100', 'Electronics': '10', 'Housing': '50'}, {'Country': 'Neuronia', 'Population': '100', 'MetallicElements': '1000', 'Timber': '50', 'MetallicAlloys': '100', 'Electronics': '10', 'Housing': '50'}, {'Country': 'Brick', 'Population': '100', 'MetallicElements': '1000', 'Timber': '50', 'MetallicAlloys': '100', 'Electronics': '10', 'Housing': '50'}]
```

run code snippet

There's nothing too fancy with this approach. Just simple parsing of each CSV line into a dict that lines up with the headers. All other considerations will have to be left for elsewhere.

[programming_project](#) [programming_project/part_1_discussions](#)

~ An instructor (Will Hedgecock) endorsed this note ~

Edit

good note | 2

Updated 1 year ago by John Ford

followup discussions *for lingering questions and comments*

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