

How's That Work?

- ◆ `sum(item[0] for item in data)`
- ◆ Read from the inside out:
 - ◆ **for item in data** — each item in the sequence is assigned to the variable **item**
 - ◆ **item[0]** — If **item** is a 2-tuple, this selects the first item
 - ◆ The resulting sequence of x- values is what the **sum()** function works with
 - ◆ It's like a list, but generated as needed from the source **data** object

With Type Hints

How we say
It's a list.
Each item is a 2-tuple.

```
from typing import List, Tuple
```

```
def sumx(data: List[Tuple[float, float]]) -> float:  
    return sum(item[0] for item in data)
```

```
def sumy(data: List[Tuple[float, float]]) -> float:  
    return sum(item[1] for item in data)
```