

Broad Overview

A Contingency Table:

	Soda	Coffee	Tea	Water	Total
20-29	10	8	5	2	25
30-39	11	9	2	3	25
40-49	8	9	1	7	25
50-59	9	8	3	5	25
Total	38	34	11	17	100

Let Y be drink choice and let X be the age range.

What are the possible outcomes for Y and X ?

$P(Y)$?

$P(Y|X = '40 - 49')$?

$\operatorname{argmax}_Y P(Y|X = '40 - 49')$?

Python Classes

```
class Person:
    def __init__(self, name):
        self.name = name

    def greet(self):
        print("Hello, my name is " + self.name)

p1 = Person("Emil")
p1.greet()
```

Example: A class for cars ...