

Lecture 3

Tables

Announcements

Python

Programming Languages

- Python is popular both for data science & general software development
- Mastering the language fundamentals is critical
- Learn through practice, not by reading or listening
- Follow along: <u>datahub.berkeley.edu</u>

(Demo)

Names

Assignment Statements

- Statements don't have a value; they perform an action
- An assignment statement changes the meaning of the name to the left of the = symbol
- The name is bound to a value (not an equation)

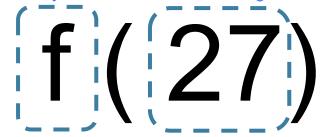
(Demo)

Call Expressions

Anatomy of a Call Expression

What function to call

Argument to the function



"Call f on 27."

Anatomy of a Call Expression

What function to call

First argument

Second argument

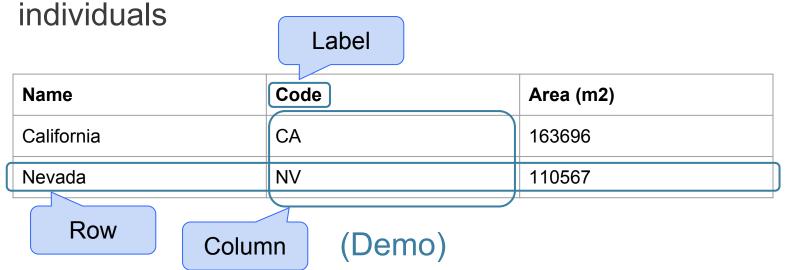
(Demo)

Tables

Table Structure

- A Table is a sequence of labeled columns
- Each row represents one individual

Data within a column represents one attribute of the



Some Table Operations

- t.select(label) constructs a new table with just the specified columns
- t.drop(label) constructs a new table in which the specified columns are omitted
- t.sort(label) constructs a new table with rows sorted by the specified column
- t.where(label, condition) constructs a new table
 with just the rows that match the condition

Discussion Question

nba table:

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