

## C: Introduction to Pandas

Data structures so far:

Lists

Dictionaries

Tuples

Plus: combinations of them

Pandas module adds two powerful new ones:

- **Series:**

Used for 1-dimensional data

Roughly: super-enhanced **dictionary**

AL	01
AK	02
AZ	04
AR	05
CA	06
...	...
WY	56

Index:

list of keys

Series itself:

list of values

- **DataFrame:**

Used for 2-dimensional data

Roughly: super-enhanced **dictionary of Series**

Index

Column names

	FIPS	POP
AL	01	4.9
AK	02	0.7
AZ	04	6.9
AR	05	3.0
CA	06	39.1
...	...	...
WY	56	0.6

Data

Index:  
shared by all columns

Columns:  
each is a Series

Illustrate via g09 demo.py