

Pandas is derived from the words : Panel Data

2008-dev Wes McKinney started developing pandas

* Fast and efficient DataFrame object with default and customized indexing.
* Tools for loading data into in-memory data objects from different file formats.
* Data alignment and integrated handling of missing data.
* Reshaping and pivoting of date sets.
* Label-based slicing, indexing and subsetting of large data sets.
* Columns from a data structure can be deleted or inserted.
* Group by data for aggregation and transformations.
* High performance merging and joining of data.
* Time Series functionality.

Pandas is the best with 3 data structures:

* Series ( size immutable)
* DataFrame ( Size Mutable )
* Panel

**Series** is a one-dimensional labeled array capable of holding data of any type (integer, string, float, python objects, etc.)

**Data frame** is a two-dimensional data structure, i.e., data is aligned in a tabular fashion in rows and columns.

**A panel**is a 3D container of data.