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Creating, Reading and Writing

1. Creating a DataFrame

We can precise indexes this way:

2. Series

It's basically a single column DataFrame

```
pd.Series([30, 35, 40],
        index=['2015 Sales', '2016 Sales', '2017 Sales'],
        name='Product A')
```

3. Reading data files

```
data = pd.read_csv("data.csv", index_col=0)
```

We can easily get the size of a DataFrame in the format (row, columns) (it's an attribute)

```
data.shape
```

Indexing, Selecting & Assigning

1. Native accessors

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We can access a column easily:

```
data.col_name
data["col_name"]
# we can also get a precise datum:
data["col_name"][idx]
```

2. Indexing in pandas

Whe can access to the data with iloc:

```
data.iloc[[rows_idx], [columns_idx]]
```

Whe can also access to the data with loc:

```
data.iloc[[rows_idx], [columns_names]]
```

iloc: 0:10 will select entries 0,...,9 loc: 0:10 will select entries 0,...,10

2. Manipulating the index