Python Pandas Matrix to Dataframes

Fan Wang

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1 Generate Matrix from Arrays

Go to the **RMD**, **PDF**, or **HTML** version of this file. Go back to fan's Python Code Examples Repository (bookdown site).

```python
import numpy as np
import pandas as pd
```

1.1 Single Arrays to Matrix

Given various arrays, generate a matrix

```python
# Concatenate to matrix
mt_abc = np.column_stack(np.random.randint(10, size=(5, 3)))
# Matrix to data frame with columns and row names
df_abc = pd.DataFrame(data=mt_abc,
          index=[ 'r' + str(it_col) for it_col in np.array(range(1, mt_abc.shape[0]+1))],
          columns=[ 'c' + str(it_col) for it_col in np.array(range(1, mt_abc.shape[1]+1))])
# Print
print(df_abc)
```

```
##      c1  c2  c3  c4  c5
## r1   0   3   1   2   3
## r2   7   4   5   1   5
## r3   9   6   6   8   0
```