For convenience, we'll define this function, which creates a DataFrame of a particular form that will be useful below:

```
In[2]: def make_df(cols, ind):
          """Quickly make a DataFrame"""
          data = {c: [str(c) + str(i) for i in ind]
                  for c in cols}
          return pd.DataFrame(data, ind)
      # example DataFrame
      make df('ABC', range(3))
Out[2]:
          A B C
       0 A0 B0 C0
       1 A1 B1 C1
       2 A2 B2 C2
```

## Recall: Concatenation of NumPy Arrays

Concatenation of Series and DataFrame objects is very similar to concatenation of NumPy arrays, which can be done via the np.concatenate function as discussed in "The Basics of NumPy Arrays" on page 42. Recall that with it, you can combine the contents of two or more arrays into a single array:

```
In[4]: x = [1, 2, 3]
       y = [4, 5, 6]
       z = [7, 8, 9]
       np.concatenate([x, y, z])
Out[4]: array([1, 2, 3, 4, 5, 6, 7, 8, 9])
```

The first argument is a list or tuple of arrays to concatenate. Additionally, it takes an axis keyword that allows you to specify the axis along which the result will be concatenated:

```
In[5]: x = [[1, 2],
            [3, 4]]
       np.concatenate([x, x], axis=1)
Out[5]: array([[1, 2, 1, 2],
               [3, 4, 3, 4]])
```

## Simple Concatenation with pd.concat

Pandas has a function, pd.concat(), which has a similar syntax to np.concatenate but contains a number of options that we'll discuss momentarily:

```
# Signature in Pandas v0.18
pd.concat(objs, axis=0, join='outer', join_axes=None, ignore_index=False,
          keys=None, levels=None, names=None, verify_integrity=False,
          copy=True)
```