```
In [1]:  import pandas as pd

         # THis will be a quick lesson on cross-tabulations, which are basically a special
```

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In [3]:  # Let's create a quick data set
         from StringIO import StringIO

         data ="""\
         Sample    Animal    Intelligence
         1         Dog       Smart
         2 Dog Smart
         3 Cat Dumb
         4 Cat Dumb
         5 Dog Dumb
         6 Cat Smart"""

         #Store as dframe
         dframe = pd.read_table(StringIO(data),sep='\s+')
```

```
In [4]:  # Show
         dframe
```

Out[4]:

	Sample	Animal	Intelligence
0	1	Dog	Smart
1	2	Dog	Smart
2	3	Cat	Dumb
3	4	Cat	Dumb
4	5	Dog	Dumb
5	6	Cat	Smart

```
In [6]:  # Now we can create a cross-tabulation table, which is basically just a frequency
         pd.crosstab(dframe.Animal,dframe.Intelligence,margins=True)
```

Out[6]:

Intelligence	Dumb	Smart	All
Animal			
Cat	2	1	3
Dog	1	2	3
All	3	3	6

```
In [ ]:  # And thats about it as far as it's general use.
         # We'll use it in examples in the final projects!
```

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In [ ]:
```