

```
In [7]: import pandas as pd
import matplotlib.pyplot as plt
from scipy.stats import ttest_ind
%matplotlib inline

df = pd.read_csv('stroopdata.csv')
summary = df.describe()
summary.transpose()
```

Out[7]:

	count	mean	std	min	25%	50%	75%	max
Congruent	24	14.051125	3.559358	8.630	11.89525	14.3565	16.20075	22.328
Incongruent	24	22.015917	4.797057	15.687	18.71675	21.0175	24.05150	35.255

```
In [8]: ax = df.boxplot()
```

```
plt.title('Measuring time between two groups')
```

```
/anaconda/lib/python2.7/site-packages/ipykernel/__main__.py:1: FutureWarning:
```

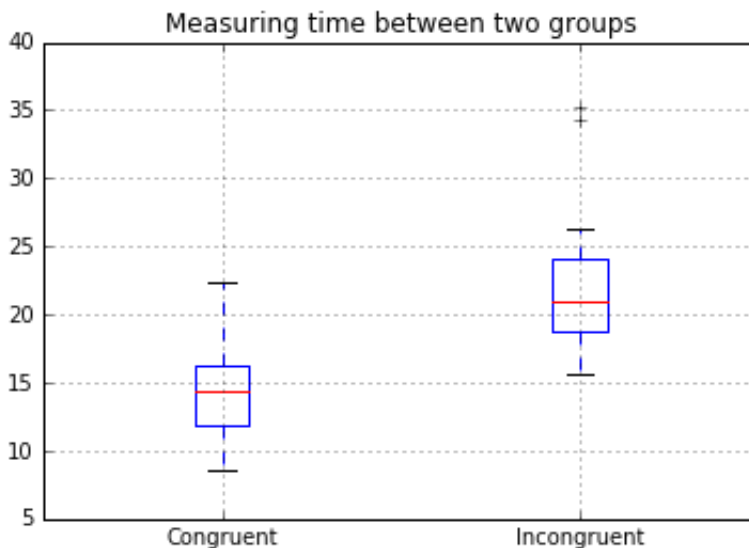
```
The default value for 'return_type' will change to 'axes' in a future release.
```

```
To use the future behavior now, set return_type='axes'.
```

```
To keep the previous behavior and silence this warning, set return_type='dict'.
```

```
if __name__ == '__main__':
```

```
Out[8]: <matplotlib.text.Text at 0x10d286650>
```



```
In [9]: t_stat, p_val = ttest_ind(df['Congruent'], df['Incongruent'])  
        print "t_stat ", t_stat  
        print "P-value ", p_val  
  
        t_stat  -6.5322505539  
        P-value  4.5949489623e-08
```

```
In [ ]:
```