

Command	Explanation	Notes
<code>help()</code>	shows help for function	or Google it
<code>print()</code>	prints information to console	
<code>import</code>	loads package into project	"as" to change name
<code>os.getcwd()</code>	shows working directory	<code>import os</code>
<code>os.chdir()</code>	sets working directory	<code>import os</code>
<code>pd.read_csv()</code>	imports csv data	<code>import pandas as pd</code>
<code>pd.read_excel()</code>	imports xls data	<code>import pandas as pd</code>
<code>df.info()</code>	brief description of data frame <code>df</code>	<code>import pandas as pd</code>
<code>df.mean()</code>	calculates mean of <code>df</code>	<code>import pandas as pd</code>
<code>df.median()</code>	calculates median of <code>df</code>	<code>import pandas as pd</code>
<code>df.min()</code>	calculates minimum of <code>df</code>	<code>import pandas as pd</code>
<code>df.max()</code>	calculates maximum of <code>df</code>	<code>import pandas as pd</code>
<code>df.std()</code>	calculates standard deviation of <code>df</code>	<code>import pandas as pd</code>
<code>df.quantile()</code>	calculates quantile of <code>df</code>	<code>import pandas as pd</code>
<code>plt.hist()</code>	creates a histogram	<code>import matplotlib.pyplot as plt</code>
<code>plt.boxplot()</code>	creates a box plot	<code>import matplotlib.pyplot as plt</code>
<code>plt.show()</code>	shows matplotlib.pyplot object	<code>import matplotlib.pyplot as plt</code>

I want to import <https://www.wimivo.com/data.csv> into Python. I need to import the "pandas" package, which I will shorten to `pd`. Then I use `pd.read_csv()` to import the csv file and look at it using `info()`.

```
import pandas as pd
df = pd.read_csv(r'https://www.wimivo.com/data.csv')
df.info()
```

Note that the `r` is not a typo: it is required to interpret backslashes in a directory.

The data frame `df` has two variables, `var1` and `var2`. Let's look at their means.

```
means = [None]*2
means[0] = df["var1"].mean()
means[1] = df["var2"].mean()
print(means)
```

Let's make a histogram of `var1`. I need to import the "matplotlib.pyplot" package, which I will shorten to `plt`.

```
import matplotlib.pyplot as plt
plt.hist(df['var1'], edgecolor='black')
plt.title("Title")
plt.xlabel("X Label")
plt.ylabel("Y Label")
plt.show()
```