Working with Jupyter console: Takeaways

Syntax

- Opening the Jupyter console:

```
ipython
```

- Getting an overview of IPython's features:

```
?
```

- Accessing Python's help system:

```
help()
```

- Displaying the documentation for an object:

```
help(obj)
```

- Exiting the Jupyter console:

```
exit
```

- Running an external Python script:

```
%run test.py
```

- Opening a file editor:

```
%edit
```

- Opening an interactive debugger:

```
%debug
```

- Showing the last few commands:

```
%history
```

- Saving the last few commands:

```
%save
```

- Printing all variable names:

```
%who
```

- Reseting the IPython session:

```
%reset
```

- Showing the contents of the current directory:

```
!ls
```

- Executing code from the clipboard:

```
%paste
```

- Opening editing area where you can paste in code from your clipboard:

```
%cpaste
```

Concepts

- Jupyter is an enhanced Python interpreter that makes working with data easier.
- Shells are useful for when you need to quickly test some code, explore datasets, and perform basic analysis.
- The main difference between Jupyer console and Jupyter notebook is that the console functions in interactive mode.
- Magics are special Jupyter commands that always start with %. Jupyter magics enable to you to access Jupyter-specific functionality, without Python executing your commands.
- Autocomplete makes it quicker to write code and lead to discovery of new methods. Trigger autocomplete by pressing the TAB key while typing a variable's name. Press TAB after typing variable name to show the methods.

Resources

- IPython Documentatiom
- Jupyter magics