

### Comments & Packages

# Python Comment	# R Comment	// JavaScript Comment
PIP or CONDA	R/RStudio	NPM or YARN
pip install package	install.packages("package")	npm install package
import pandas	library(dplyr)	const fs = require("fs");

### Reading CSV Files

Python	R	JavaScript
import pandas as pd	library(readr)	const fs = require("fs");
pd.read_csv("file.csv")	read_csv("file.csv")	readFileSync("file.csv")

### Python - Functions

Python	R	JavaScript
def fxnName(arg1, arg2): statements return val	fxnName <- function(arg1, arg2) { statements return (value) }	function fxnName(arg1) { statements }

### Python - Type Conversion

```
int(var)
float(var)
str(var)
```

### Conditionals

Python	R	JavaScript
and, or, not	&,  , !	&&,   , !

### Ternary Expression

Python	R	JavaScript
outcome = 'failed' if grade < 50 else 'passed'	var outcome = grade < 50 ? 'failed' : 'passed'	

### R - Type Conversion

```
as.integer(var)
as.character(var)
as.factor(var)
as.vector(var)
as.matrix(var)
as.data.frame(var)
```

### JavaScript - Packages

```
npm install packageName
  (options: -g --save --save-dev)
const packageName = require("packageName");
```

### JavaScript - Type Conversion

```
String(var)
Number(var)
date.toString()
num.toString()
str.toNumber()
bool.toNumber()
```



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