Python, R, and JS - Basics Cheat Sheet

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Comments & Packages

# Python Comment	# R Comment	// JavaScript Comment
PIP or CONDA	R/RStudio	NPM or YARN
`pip install package`	`instal l.p ack age s("p ack age ")`	`npm install package`
`import pandas`	`librar y(d plyr)`	`const ps = requir e("f s" );`

Conditionals

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

Ternary Expression

Python

```
outcome = 'failed' if grade < 50 else 'passed'
```

R

```
outcome <- ifelse(grade < 50, 'failed', 'passed')
```

Reading CSV Files

`import pandas as pd`	`librar y(r eadr)`	`const fs = requir e("f s" );`
`pd.rea d_c sv( " fil e. c sv")`	`read_c sv( " fil e.c sv")`	`readFi les Sync ( "fi le.c sv ")`

R - Type Conversion

```
as.num eric (var)
as.cha rac ter (var)
as.fac tor (var)
as.vec tor (var)
as.mat rix (var)
as.dat a.f ram e(var)
```

Python - Functions

Python

```
def fxnNam e(a rg1 ,arg2):     statements     return v al
```

R

```
fxnName <- functi on( arg 1,a rg2){     statements e) }
```

JavaScript - Packages

```
npm install packageName
        (op tions: -g --save --save -dev)
const packag eName = requir e("p ack age Nam e");
```

Python - Type Conversion

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

JavaScript - Type Conversion

```
String(var)
Number (var)
date.t oSt ring()
num.to Str ing()
str.to Num ber()
bool.t oNu mber()
```


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