



# Intro to Programming with R for Political Scientists

*Session 2: Base R and Tidypurse Basics*

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# Basic Operations & Atomic Structures

# CalcuatoR

```
7+5
```

```
## [1] 12
```

[n] stands for the nth element printed to the console.

```
4*5+2/3^3 # Multiplication and division first, then addition and subtraction
```

```
## [1] 20.07407
```

```
# Modulo Operators:
```

```
10 %/% 3 # Integer division
```

```
## [1] 3
```

```
10 %% 3 # Remainder ("Rest")
```

# CalculatoR

```
# Relational and logical operators
```

```
3 < 4
```

```
## [1] TRUE
```

```
2 == 1 & 4 > 2 # == "equal to"; & "element wise logical AND"
```

```
## [1] FALSE
```

```
2 == 1 | 4 > 2 # | "element wise logical or"
```

```
## [1] TRUE
```

```
3 != 4 # != "not equal"
```

```
## [1] TRUE
```

# CalculatoR

```
# Floating Points
```

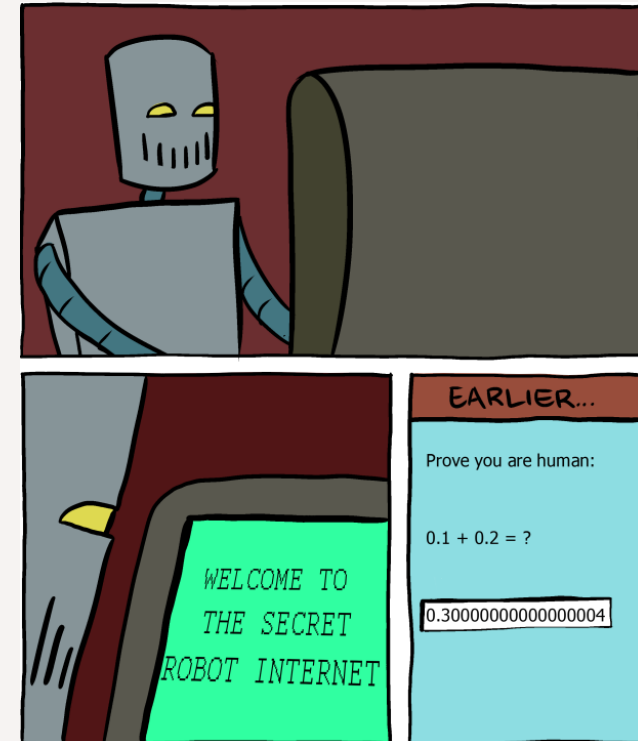
```
0.1 + 0.2
```

```
## [1] 0.3
```

```
0.1 + 0.2 == 0.3
```

```
## [1] FALSE
```

Because internally, computers use a format (binary floating-point) that cannot accurately represent a number like 0.1, 0.2 or 0.3 at all.



# A Primer on OOP ("Object Oriented Programming")

