



Basic Data Types





logical

```
class() to reveal type
> TRUE
[1] TRUE
> class(TRUE)
[1] "logical"
> FALSE
[1] FALSE
> class(NA)
[1] "logical"
> T
[1] TRUE
[1] FALSE
```





numeric

```
> 2
[1] 2
> 2.5
[1] 2.5
> 2L
[1] 2
> class(2)
[1] "numeric"
> class(2L)
[1] "integer"
```





numeric

```
> is.numeric(2)
[1] TRUE
> is.numeric(2L)
[1] TRUE
                          integer is numeric
                          numeric not always integer
> is.integer(2)
[1] FALSE
> is.integer(2L)
[1] TRUE
```





character

```
> "I love data science!"
[1] "I love data science!"
> class("I love data science!")
[1] "character"
```





Other atomic types

- double: higher precision
- complex: complex numbers
- raw: store raw bytes





Coercion

```
> as.numeric(TRUE)
[1] 1
> as.numeric(FALSE)
[1] 0
> as.character(4)
[1] "4"
> as.numeric("4.5")
[1] 4.5
> as.integer("4.5")
[1] 4
> as.numeric("Hello")
[1] NA
Warning message:
NAs introduced by coercion
```