R Programming Notes

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Week 1

Subsetting

There are three subsetting commands: "[" "]]" and \$.

- "[" always returns an object of the same class and allows you to subset multiple elements from an object.
- "[[" extracts elements from a list or data.frame.
- "\$" extracts elements from a list or data.frame by name specifically.

Note: "[[" can be used to extract with a computed indicies, whereas "\$" can only subset by name.

```
x <- list(foo = 1:4, bar = 0.6, baz = "hello")
name <- "foo"
x[[name]]</pre>
```

[1] 1 2 3 4

x\$name

NULL

x\$foo

[1] 1 2 3 4

Note Subsetting a matrix with [default behavor returns a vector of the subset (dimensions are lost). To prevent this behavior, set "drop = false".

```
x <- matrix (1:6, 2, 3)
x[1,]
```

[1] 1 3 5

x[1, drop = F]