R Tutorial for Machine Learning with Andrew Ng

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Introduction

1 Basic Operations

1.1 Basic algebra

```
5 + 6
```

```
## [1] 11
```

```
3 - 2
```

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

```
5 * 8
```

```
## [1] 40
```

```
1 / 2
```

```
## [1] 0.5
```

```
2 ^ 6
```

```
## [1] 64
```

1.2 Logical operations

```
1 == 2
```

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

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```
1 != 2
```

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

```
1 && 0
```

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

```
1 || 0
```

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

```
xor(1, 0)
```

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

```
options(prompt = ">> ", continue = "+ ")
```

1.3 Variables

```
a <- 3
a
```

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

```
b <- "h1"
b
```

```
## [1] "h1"
```

```
c <- 3 >= 1
c
```

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

```
a <- pi
a
```

```
## [1] 3.141593
```

```
print(a)
```

```
## [1] 3.141593
```

```
sprintf("6 decimals: %.6f", a)
```

```
## [1] "6 decimals: 3.141593"
```

```
print(sprintf("6 decimals: %.6f", a))
```

```
## [1] "6 decimals: 3.141593"
```