

# Lab 6

Data types and data structures

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2023-10-10

# Today

- ▶ Quick recap
- ▶ Go over some of lab 4
- ▶ Loops
- ▶ Sampling

## Indexing elements: Base R

\$ and []

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`select and filter`

# Loops in R

Three kinds of loops:

- ▶ for loop
- ▶ while loop
- ▶ repeat loop [we won't discuss]

# Loops in R: for loops

Basic syntax

## Loops in R: for loops

```
## [1] 2
```

```
## [1] 4
```

```
## [1] 6
```

```
## [1] 8
```

## Loops in R: for loops

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

```
## [1] 8
```

```
## [1] 239
```

```
## [1] 29321
```



## Loops in R: for loops

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

```
## [1] 8
```

```
## [1] 239
```

```
## [1] 29321
```

# Loops in R: while loops

Basic syntax

## Loops in R: while loops

```
## [1] 0
```

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

```
## [1] 2
```

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

```
## [1] 4
```

```
## [1] 5
```

```
## [1] 6
```

## Loops in R: while loops

```
## [1] 120
```