Control Flow in R: Takeaways 🖻

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Concepts

- Control flow is a form of decision making in code. Using comparison operators, we can decide what code to run based on if a value satisfies a given condition.
- The if statement provides us with a way to implement a branching path structure to our code. The if_else() and case_when() functions are vectorized implementations of the if statements, which we can use to create new columns in our dataset based on control flow.

Syntax

An

```
if
```

statement can be written like the following:

```
if (insert comparison operator here) {
    print("Code to run if the comparison operator is TRUE")
} else {
    print("Code to run if the comparison operator is FALSE")
}
```

• The

```
if_else()
```

function vectorizes a simple two-branch decision tree:

```
new_recent_grads <- recent_grads %>%
    mutate(
    is_engineering = if_else(Major_category == "Engineering", TRUE, FALSE)
    )
```

• To create a multiple comparison in an

```
if_else()

function, you must use

and

instead of

and
```

• The

• The

%in%

operator helps us create a comparison operator based on a membership test. If a value is in a given collection, then it will evaluate to

```
TRUE
```

```
FALSE
```

, otherwise.

```
recent_grads %>%

filter(

Major %in% c("AEROSPACE ENGINEERING", "BIOMEDICAL ENGINEERING", "CHEMICAL

ENGINEERING")

)
```

• We can use the ! character to invert logical values and comparison operators. `x <- 10 x == 10 [1] TRUE !(x == 10) [1] FALSE `



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