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Philip Pesic
Week 5
February 19 2023
Week 5 Lecture Notes
```

Alternative sequences

Sequences are procedural sets of steps or actions. Alternative sequences are sequences which contain multiple branches, represented in code by if statements.

Ex:

```
If it is raining -> wear a jacket

|
if not -> don't
```

Criteria

Criteria, also called condition, is the basis/standard on which something is judged. Criteria determine the motivation for an action, and what is necessary to execute it.

```
Ex: criteria is in (), action is in {}

(If it is raining) -> {wear a jacket}

|

(if not) -> {don't}
```

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If/else

In code, alternative sequences are in the form of if/else statements. If/else statements can also be written as just if statements if there is no default case. These are referred to as double and single selection respectively.

```
Ex:

If (x==1) {

//Executed if x is 1
}

Else {

//Executes otherwise
}
```

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Cascading and nested if/else

Cascading ifs and nested ifs are ways to write if statements inside of other ifs. Cascading ifs are structured in a way such that only the first true case is executed, while in nested ifs, every case must be true.

```
Ex:
//Cascading
If (x ==1) {
}
Else if (x==2) {
}
Else {}

//Nested
If (x!=1) {
If (x!=2) {
```

}}