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| Circle Language Spec: Execution Control |

## If

The If statement is the most common form of *conditional execution*. Conditional execution is a kind of execution control statement, explained in the *Conditional Execution* article.

The If statement runs a command if a certain condition is met. On top of that, the If statement can run an alternate command when the condition is *not* met.

The If command takes one or two command references as a parameter. That is the command run, when a condition is met and the command run, when a condition is not met. The condition is also passed along to the If command as an argument. The condition is a reference to a Boolean.

The command to run when a condition is met is called the Then clause. The command to run when a condition is *not* met is called the Else clause.

There are two versions of If. There is the If Then statement, that does not have an Else clause. And there is If Else statement, which does have an Else clause.

The implementation of the If command is quite simple. It simply calls a few machine instructions to start the right command, based on whether the Boolean is True or False.