TECH!!

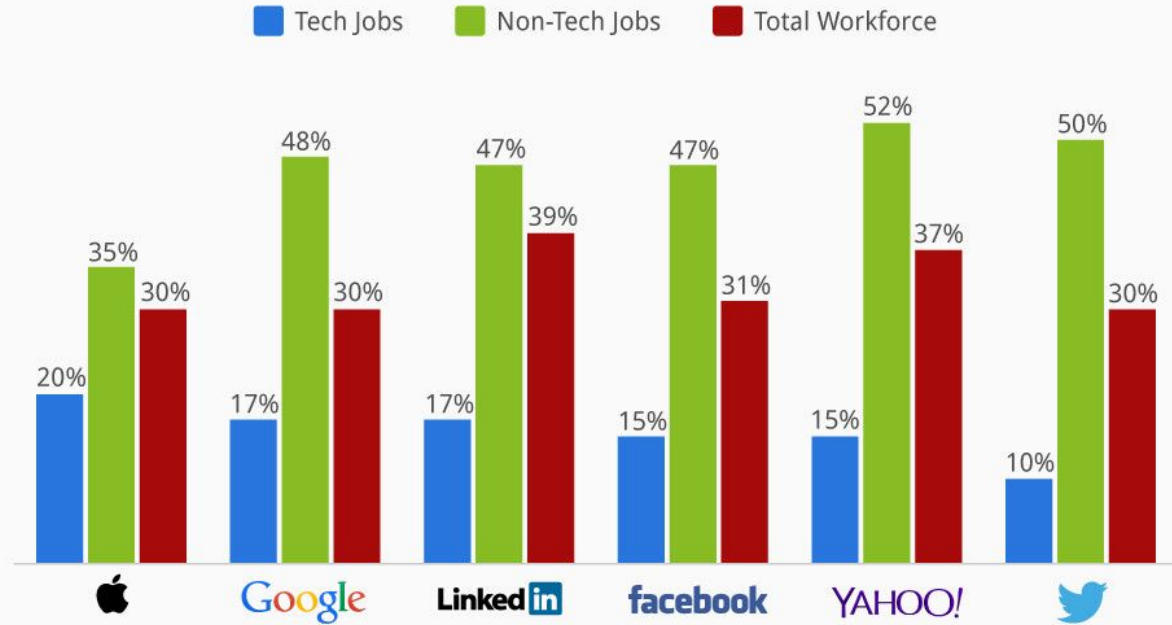# What is tech?

◇ Technology is the application of scientific knowledge for practical purposes...

◇ When someone hears of the word 'technology', they often think of electronics or devices.
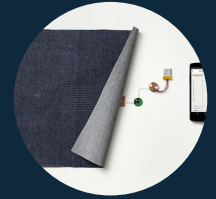
◇ In reality, tech encompasses so much more.

Women Vastly Underrepresented In Silicon Valley Tech Jobs

% of female employees in the workforce of tech companies

■ Tech Jobs ■ Non-Tech Jobs ■ Total Workforce

Company	Tech Jobs	Non-Tech Jobs	Total Workforce
Apple	20%	35%	30%
Google	17%	48%	30%
LinkedIn	17%	47%	39%
facebook	15%	47%	31%
YAHOO!	15%	52%	37%
Twitter	10%	50%	30%

@StatistaCharts   Source: Company reports

statista

Tech in Different Industries

Medicine/Health
- ◇ 3D Printing
- ◇ Gene editing
- ◇ Biotechnology
- ◇ Smart homes

Fashion
- ◇ Wearables (& Health)
- ◇ 3D Printing (Art, smart fashion)
- ◇ AI Closet, Try ons

Transportation
- ◇ AI powered public transportation
  - ▪ Real time data
- ◇ Self-driving cars

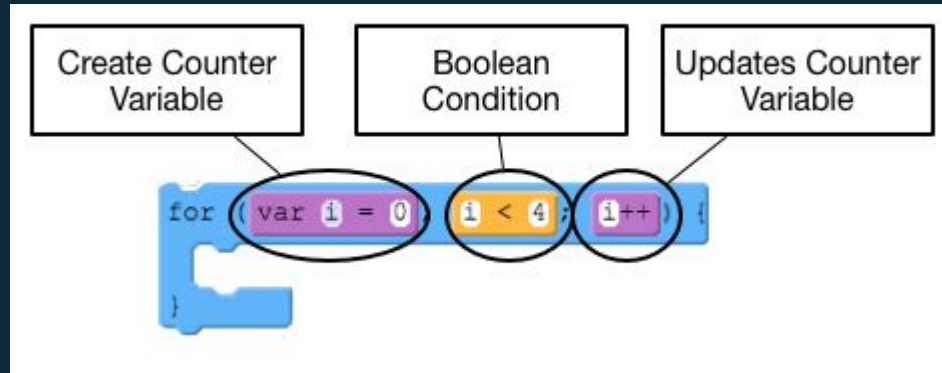# Basics of Coding

Algorithm

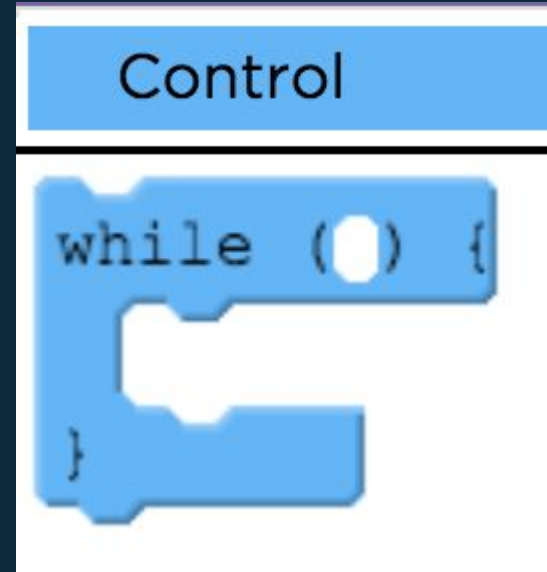A **list** of steps to finish a task.


```
if  length of scores  = 0  then
    say There is no high score, the table is empty for 2 secs
else
    set highest_so_far to item 1 of scores
    set candidate to 2
    repeat  length of scores - 1
        if  item candidate of scores  > highest_so_far  then
            set highest_so_far to item candidate of scores

        change candidate by 1

    say join The high score is highest_so_far for 2 secs
```

Loops

◇ Loop: The action of doing something **over and over** again.

◇ For loop: A loop with a predetermined beginning, end, and increment (step interval).

◇ While loop: A loop that **continues to repeat** while a condition is true.

Parameter

An extra piece of information passed to a function to **customize** it for a specific need.

parameter name

```
function movePlayer (player) {← →
    var player_y = getProperty(▼player, ▼"y");
    player_y = player_y + 10;
    setProperty(▼player, ▼"y", ▼player_y);
}
```
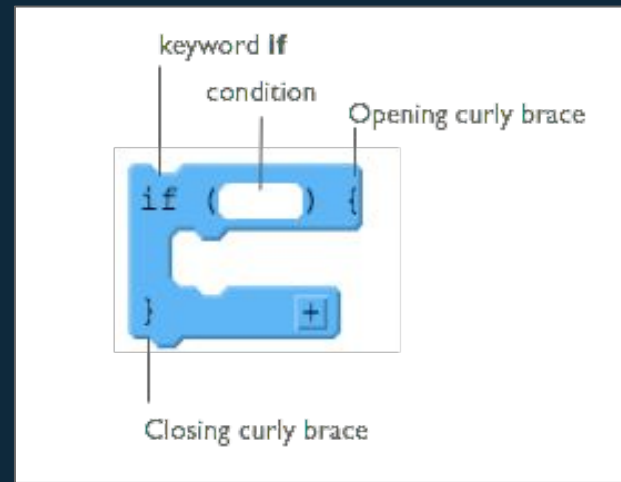
parameter used as **variable**

Conditionals

keyword **if**
condition
Opening curly brace

if ( ) {

}

Closing curly brace

Statements that only run under certain conditions.

◇ **If statement**: The common programming structure that implements "conditional statements".
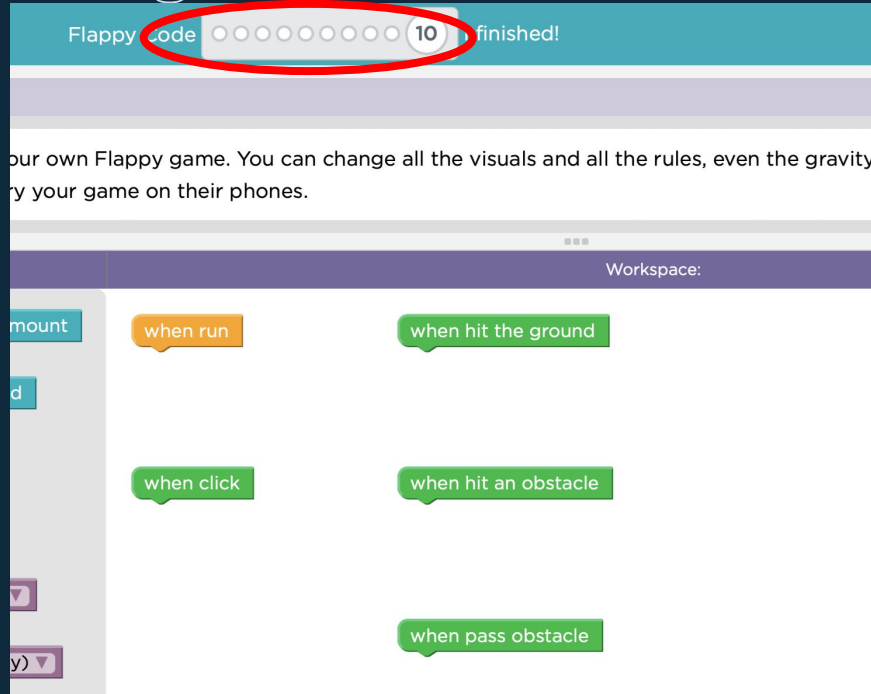
Flappy Code!
Activity

Code.org

https://studio.code.org/flappy/1

Click on the Last Circle at the top as we go through the tutorial!

Women in Tech Spotlight

Karlie Kloss - Supermodel

- After taking several courses in technology and coding, Karlie noticed the importance and prominence of tech in the future
- She acted on this by starting a free coding camp called Kode with Klossy which would help girls get into coding and become more tech-literate
    - This camp is for girls 13-18, but there are many ways for you to get into tech beforehand
        - Girls Who Code

More Coding!

- ◇ Scratch.com
- ◇ Keep exploring code.org

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