

# MAKING DECISIONS

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# AFTER THIS PRESENTATION

- You'll be able to make decisions using if statements
- You'll be able to make decisions using switch statements

# **WE WILL LOOK AT**

```
if switch...case
if...else default
if...else if...
if...else if...
```

#### MAKING DECISIONS

- if is used similar to regular English
- Lots of variations e.g.

```
if
if ... else
if ... else
if ... else
if ... else if ... else
```

## **COMPARING THINGS**

- < is less than
- <= is less than or equal to
- > is greater than
- >= is greater than or equal to
- == is equal to
- != is not equal to

#### **EXAMPLE**

```
<!doctype html>
<html>
  <head><script>
    var user name;
    user name=prompt("What is your name?");
    if (user name == "dave")
      alert("Great name!");
  </script></head>
</html>
```

#### **USING BRACES**

You must use braces { } for more than 1 line of code:

```
if (user_name == "dave" ) {
    alert("Great name!");
    awesome_name=true;
}
```

• Braces are optional if there is only one line of code

#### IF ... ELSE

- else goes at the end of the if
- It handles any situation not already handled at that point

```
<!doctype html>
<html>
  <head><script>
    var user name;
    user name=prompt("What is your name?");
    if (user name == "dave")
      alert("Great name!");
    else
      alert("Your name isn't great...");
  </script></head>
</html>
```

# IF ... ELSE IF

- Use else if to add another test
- You can do this as many times as you like

```
<!doctype html>
<html>
  <head><script>
    var user name;
    user name=prompt("What is your name?");
    if (user name == "dave")
      alert("Great name!");
    else if (user name == "jogesh")
      alert("Pretty good name!");
  </script></head>
</html>
```

#### IF ... ELSE IF ... ELSE

Here's an example of everything working together

```
<!doctype html>
<html><head><script>
  var user name;
  user name=prompt("What is your name?");
  if (user name == "dave")
    alert("Great name!");
  else if (user name == "jogesh")
    alert("Pretty good name!");
  else if (user name == "oz")
    alert("Excellent name!");
  else
    alert("Your name isn't great, never mind...");
</script></head></html>
```

## **SWITCH**

• Used for a series of comparisons:

```
<!doctype html>
<html>
    <head>
        <script>
        var user name=prompt("What is your name?");
        switch(user name) {
            case "dave":
                alert("Great name!");
                break;
            case "jogesh":
                alert("Pretty good name!");
                break;
            default:
                alert("Your name isn't great, never mind...");
        </script>
    </head>
</html>
```

#### **SWITCH**

- break is used to stop any more case comparisons
- Sometimes break is appropriate, sometimes it isn't

```
<!doctype html>
<ht.ml>
    <head>
        <script>
        var user name=prompt("What country would you like to visit?");
        switch(user name) {
            case "Canada":
            case "France":
                alert("Take me also!");
                break;
            case "Japan":
            case "Philippines":
                 alert("Great! Have fun!");
                break;
            case "North Korea":
                 alert("Oh! Good luck!");
                break;
            default:
                 alert("I am sure you will have a great time");
        </script>
    </head>
</html>
```