

MEETING XI

LOGICAL OPERATORS & CONDITIONALS

BOOLEANS REVIEW

//Two possible values:

- `true` this is true
- `false` this is not true

//Examples:

- `var a = true;`
- `var b = false;`

LOGICAL OPERATORS

//examples

- `true && true` → `true`
- `true && false` → `false`
- `false && false` → `false`

//three operators

- `!` not
- `&&` and
- `||` or

- `false || false` → `false`
- `true || false` → `true`
- `true || true` → `true`

- `!true` → `false`
- `!false` → `true`

CONDITIONALS

//key terms

```
if (a) {  
    //runs if boolean a is true  
}  
else if (b) {  
    //runs if a is false and b is true  
}  
else {  
    //runs only if a and b are both false  
}
```

//examples

see following slides

CONDITIONALS: EXAMPLE (1 OF 3)

```
//checks if a button is clicked and goes to a page if it's clicked
```

```
if (isClicked) {  
    goToPage();  
}
```

CONDITIONALS: EXAMPLE (2 OF 3)

```
//repairs a bike  
    //pumps the tire up if it's flat  
    //checks the pressure if it's not flat
```

```
if (isFlat) {  
    pumpTire();  
} else {  
    checkPressure();  
}
```

CONDITIONALS: EXAMPLE (3 OF 3)

```
//repairs a bike
```

```
    //patches a puncture if it's punctured
```

```
    //pumps the tire up if it's flat
```

```
    //checks the pressure if it's not flat
```

```
if (isFlat && isPunctured) {  
    patchPuncture();  
    pumpTire();  
} else if (isFlat) {  
    pumpTire();  
} else {  
    checkPressure();  
}
```

HOMEWORK

do this exercise

use class code **0293** for CodeHS!

BEYOND PROGRAMMING CLUB

- check out that [AR-Drone API](#)
- work on [CodeHS](#) at home: you have premium accounts!
- check out resources featured at [bento.io](#)