#### Conditional statements

Ed-Talk #3

### What is a BOOLEAN variable?



#### The Coleman Co

FALSE

- Type of Variable
  Only Two Values
  Used for Comparison
  Control Events in the Program



# What is a conditional statement?

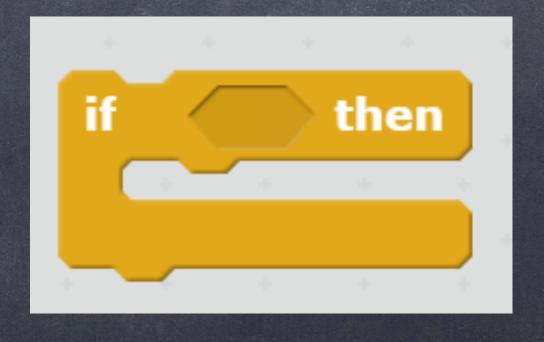


#### In A Colemna C

- o Checks if the condition is true
- o Then completes the code



```
if (lives < 0) {
   return "you lost";
}</pre>
```



#### IF / THEN / ELSE SLOLEMACHE

- o Checks if the condition is true
- o Then completes the code
- o Else do a different action

```
if (lives < 0) {
   return "you lost";
} else {
   return "keep playing";
}</pre>
```

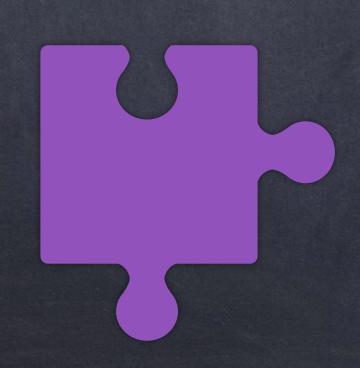


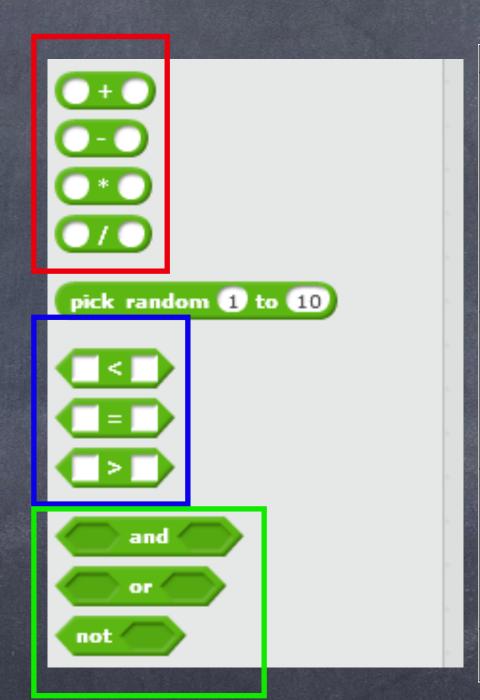
## What is are operators?



## Openations

- e Modify Variables
- © Courpare Variables
- o Check Variables





Category	Operator	Name/Description	Example	Result
Arithmetic	+	Addition	3+2	5
	-	Subtraction	3-2	1
	*	Multiplication	3*2	6
	/	Division	10/5	2
	%	Modulus	10%5	0
	++	Increment and then return value	X=3; ++X	4
		Return value and then increment	X=3; X++	3
		Decrement and then return value	X=3;X	2
		Return value and then decrement	X=3; X	3
Logical	&&	Logical "and" evaluates to true	3>2 &&	False
		when both operands are true	5>3	raise
	II	Logical "or" evaluates to true	3>1    2>5	True
		when either operand is true		
	!	Logical "not" evaluates to true if	3!=2	True
		the operand is false		
Comparison	==	Equal	5==9	False
	!=	Not equal	6!=4	True
	<	Less than	3<2	False
	<=	Less than or equal	5<=2	False
	>	Greater than	4>3	True
	>=	Greater than or equal	4>=4	True
String	+	Concatenation(join two strings	"A"+"BC"	ABC
		together)		