Ternary Operator

What are some unary operators?
What are some binary operators?
There is just one ternary operator:

\[ X ? Y : Z \]

X must be a boolean expression
Y and Z must have similar types

What does this operator do?

Examples:
**Switch Statements**

Two ways to do the same thing:

```java
if (x == 3) {
    A
} else if (x == 40) {
    B
} else if (x == -5) {
    C
} else {
    D
}
```

```java
switch(x) {
    case 3:
        A
        break;
    case 40:
        B
        break;
    case -5:
        C
        break;
    default:
        D
}
```
Switch Statements (Details)

• Default is optional

• Variable at the top must be one of these types: int, short, byte, char, String

• Cases must be *literals* ONLY (not variables, not more complex expressions)
  
  Example: SimpleSwitch

• What happens if we take out “default”? (This distinguishes switch statements from if else-if else-if chains)
  
  Examples: BetterSwitch, AgeCalculator