



Ternary operator

```
ternarySupported ?  
useIt() : useIf()
```



The ternary operator ? :

- Alternative to IF-statements
- IF-statements don't have a value - can't be used as an expression
- The ternary operator is an expression
- It can be used to write compact code
- Called ternary, since it has three operands

Syntax

```
<boolean expression> ? <expression if true> : <expression if false>
```

```
// Example:
```

```
double taxRate = income < 30_000 ? 0.3 : 0.4;
```

```
// the expression will be evaluated to 0.3 if income < 30 000 and  
// 0.4 otherwise.
```

Syntax

```
<boolean expression> ? <expression if true> : <expression if false>
```

```
// Example:
```

```
double taxRate = income < 30_000 ? 0.3 : 0.4;  
                boolean
```

Syntax

```
<boolean expression> ? <expression if true> : <expression if false>
```

```
// Example:
```

```
double taxRate = income < 30_000 ? 0.3 : 0.4;  
                boolean         if true
```

Syntax

```
<boolean expression> ? <expression if true> : <expression if false>
```

```
// Example:
```

```
double taxRate = income < 30_000 ? 0.3 : 0.4;  
                boolean           if true  if false
```

Can be chained together

```
<boolean expression> ? <expression if true> : <expression if false>
```

```
String priceRange;
```

```
priceRange = price < 50 ? "low" : price < 100 ? "medium" : "high";
```

```
// Imagine parentheses:
```

```
priceRange = price < 50 ? "low" : (price < 100 ? "medium" : "high");
```

```
//           boolean      true           false
```

Further reading

- <https://docs.oracle.com/javase/tutorial/java/nutsandbolts/op2.html>