

Something **new**: String
class odds & ends

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Java

String Details: Constructing Strings

you don't have to use *new*

// formal way to construct a String object

```
String a = new String("happy");
```

// but this literal method works also

```
String b = "ice cream";
```

String Details: Strings are Immutable!

Every time you use String var, a new String object is made:

```
// makes and stores a String object in RAM
```

```
String c = new String("happy");
```

```
// makes and stores another String object in RAM
```

```
String d = "ice cream";
```

```
// makes and stores another String object in RAM
```

```
d = "bananas";
```

String Details: Convert an int to a String...

```
int e = 27;  
// f is the String "27"  
String f = ""+e;  
// note the above uses the String concatenate operator  
// as a review  
String g = "I love ";  
String h = "pizza"  
System.out.println(g+h);  
// the above line outputs I love pizza
```

String Details: Escape Sequences

// \n is called an escape sequence which inserts a new
// line into the string

// for example:

```
String j = "I like \n happy face pancakes!";  
System.out.println(j);
```

output:

I like

happy face pancakes!

String Details: Escape Sequences

// \t is called an escape sequence which inserts a tab into the string

// for example:

```
String j = "I like \t happy face pancakes!";  
System.out.println(j);
```

output:

I like happy face pancakes!

String Details: Escape Sequences

// \" is called an escape sequence which inserts a “ character into the string

// for example:

```
String j = “I like \" happy face pancakes!”;  
System.out.println(j);
```

output:

I like “ happy face pancakes!

String Details: Escape Sequences

// \\ is called an escape sequence which inserts a \ character into the string

// for example:

```
String j = "I like \\ happy face pancakes!";  
System.out.println(j);
```

output:

I like \ happy face pancakes!

String Details: Escape Sequences

Escape Sequences

Escape Sequence	Description
<code>\t</code>	Insert a tab in the text at this point.
<code>\b</code>	Insert a backspace in the text at this point.
<code>\n</code>	Insert a newline in the text at this point.
<code>\r</code>	Insert a carriage return in the text at this point.
<code>\f</code>	Insert a form feed in the text at this point.
<code>\'</code>	Insert a single quote character in the text at this point.
<code>\"</code>	Insert a double quote character in the text at this point.
<code>\\</code>	Insert a backslash character in the text at this point.

Lab

- This is the start of a sequence of labs
- Write a program that talks back to the user
 - Have the user enter something sassy.
 - Maybe a pet peeve
- Have the program use as many escape sequences to talk back to the user and quote the user.