



Topic 9: JavaScript

Strings

Lecture Contents

- Concatenation
- String Length
- Slicing Strings

Concatenation

- Open a browser console, and at the prompt, type the following, then press *<enter>* :

> 2+5

Concatenation

- Open a browser console, and at the prompt, type the following, then press *<enter>* :

> 2+5

> "Hello" + "World!";

Concatenation

- Open a browser console, and at the prompt, type the following, then press *<enter>* :

> 2+5

> "Hello" + "World!";

> "Hello " + "World!";

> "Hello" + 5;

String Length

- Try this in the browser console:

```
> name = "Chris"
```

```
← "Chris" = $1
```

```
> name.length
```

```
← 5 = $2
```

```
>
```

String Length

- This works for strings, not only variables

```
> "Hello World!".length
```

```
← 12 = $3
```

Slicing Strings

- Try the following in a browser console:

```
> greeting = "Hello World!";  
> greeting.slice(0,5);
```

Slicing Strings

- Try the following in a browser console:
 - > `greeting = "Hello World!";`
 - > `greeting.slice(0,5);`
- What value of `x` and `y` will produce "Goodbye World!"?
 - > `greeting = "Hello World!";`
 - > `"Goodbye" + greeting.slice(x,y);`

Slicing Strings

- Try the following in a browser console:

```
> greeting = "Hello World!";  
> greeting.slice(0,5);
```

- What value of x and y will produce "Goodbye World!"?

```
> greeting = "Hello World!";  
> "Goodbye" + greeting.slice(x,y);
```

- Solutions:

```
> "Goodbye" + greeting.slice(5,12);  
> "Goodbye" + greeting.slice(5,greeting.length);  
> "Goodbye" + greeting.slice(5);
```

Changing Case

- Try these:

```
> greeting = "Hello World!";  
> greeting.toUpperCase();  
> greeting.toLowerCase();  
> greeting;
```

Changing Case

- Try these:
 - > `greeting = "Hello World!";`
 - > `greeting.toUpperCase();`
 - > `greeting.toLowerCase();`
 - > `greeting;`
- How to change the value of `greeting`?

Changing Case

- Try these:

```
> greeting = "Hello World!";  
> greeting.toUpperCase();  
> greeting.toLowerCase();  
> greeting;
```

- How to change the value of `greeting`?

```
> greeting = greeting.toUpperCase();  
> greeting;
```

String Challenge

- prompt() user for them to enter their name
- Greet the user using an alert()
 - Ensure the user's name starts with an upper case letter
 - Ensure the rest of the user's name is in lower case.

String Challenge

- prompt() user for them to enter their name
- Greet the user using an alert()
 - Ensure the user's name starts with an upper case letter
 - Ensure the rest of the user's name is in lower case.

```
var name = prompt("Please enter your name");
```

```
name = name.slice(0,1).toUpperCase() +  
        name.slice(1).toLowerCase();
```

```
alert("Hello, " + name);
```



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