Comp 125 - Visual Information Processing

Spring Semester 2019 - Week 2 - Friday

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JS Basics - data types - string manipulation

- manipulate numbers e.g. perform mathematical calculations...
- also directly manipulate other data types
 - e.g. strings and booleans
- perform various operations to modify a string, e.g.
- slice()
 - get characters from range in string, e.g. start, middle or end
 - length
 - get the number of characters in a string
 - might also need to get a single character from a string
 - e.g. the first, third, and sixth characters...
- further details on JavaScript strings,
 - W3Schools Strings
 - MDN Strings reference

JS Basics - example string manipulation - slice

Manipulate strings with existing functions - e.g. slice()



JS Basics - example string manipulation - length of a single word

Use length property to get number of characters in a string of a single word...



JS Basics - example string manipulation - length of a phrase

Use length property to get number of characters in a string of a phrase...



JS Basics - example string manipulation - get a single character from a string

Index position defined for each character in a string, e.g.

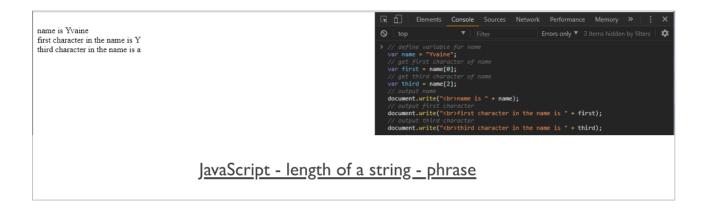
```
Y|v|a|i|n|e
0|1|2|3|4|5
```

Then, we can get a single character using this index position, e.g.

```
var name = "Yvaine";
var first = name[0];
var third = name[2];
```

JS Basics - example string manipulation - get a single character from a string

Get the first and third character from the defined string value...



JS Basics - example string manipulation - modify case

- also use built-in JavaScript functions to modify the case of a string
- this might include a word, phrase, or even a single character
- we may change the case to all uppercase or all lowercase
- toUpperCase() change all characters in a string to uppercase
- toLowerCase() change all characters in a string to lowercase

JS Basics - example string manipulation - modify case

modify the case for a string to all uppercase or all lowercase



JS Basics - example string manipulation - modify case of a single character

modify the case of a single character in a string...INCORRECT USAGE



JS Basics - example string manipulation - modify case of a single character

modify the case of a single character in a string...CORRECT USAGE



n.b. there are many ways to create this result using JavaScript...this is only one possible solution