

new Topic: more String
methods

Mr. Neat
Java

Want to isolate a part of a String

- Need a method to know how long the String is
- Need a method that will extract a part of a String object

- Need a method to know how long the String is
- Need a method that will extract a part of a String object
- There are many String methods
- We have used *equals* so far
- To determine how many characters there are in a String, the method is *length()*

```
String a = "red sox";  
System.out.println(a.length())  
// outputs 7
```

- Need a method to know how long the String is
 - Need a method that will extract a part of a String object
-
- There are two versions of the same String method that extract a part of a String:

String substring(int index1, int index2);
String substring(int index1);

Example String w indices:

I love computers and the beach!

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

Note: indices start counting from 0!

Example String w indices:

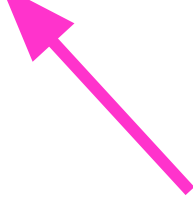
I love computers and the beach!

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

```
String bob = new String("I love computers and the beach!");  
System.out.println(bob.substring(0,5);  
// output is: I lov
```



starting
index



1 more than the
ending index

Example String w indices:

I love computers and the beach!

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

```
String bob = new String("I love computers and the beach!");  
System.out.println(bob.substring(25));  
// output is: beach!
```



starting
index

This version returns the
remainder of the String

Lab

- Write a Java program that:
 - asks the user to enter a word
 - outputs each letter of the word individually
 - outputs each letter on a new line in the command window

Hints

- Use the String method *substring* to extract a letter at a time from the word