

Step Into Java:  
More on Strings,...  
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Java

So far, we have experience with one String method....what is it?

How do you define a String variable?

How do you construct a String object?

# Why More String Methods?

- 1) get more practice using an existing class
- 2) This is how word processors work

# What else do we want to do to a String?

- search for a character (“?”)
- search for a pattern (“Mrs.”)
- extract a portion (last name)
- determine length of String

# String Methods

`indexOf()` - searches for a single character

`indexOf()` - searches for a pattern

`substring` - extracts a specified portion

`length()` - determines length

`append` (pre or post) - with `+` operator

`equals()` - check for equality

`compareTo()` - sort alphabetically

# String Method Examples

```
String s;
```

```
s = "Red";
```

```
s = s + " Sox";
```

```
s.equals("Yankees");
```

```
s.equals("red sox");
```

```
s.equalsIgnoreCase("red sox");
```

```
s.length();
```

# String Methods (cont.)

`substring(fromPos, toPos)`

returns the segment of the string from fromPos to toPos-1

`s.substring(4, 7);`

# String Methods (cont.)

```
s.compareTo("Cubs");
```

This compares two Strings.

0 is returned if they are equal.



# String Lab

- Write a program that extracts the last name given the person's full name.

For example, given

Arnold Swagsaklsdfjslakfiurpqr

in a String variable, write his last name to the screen.

# Pseudo Code

- 1) find the space
- 2) determine length
- 3) extract from after the space  
to the end