

References

- like pointers

- An object that is uninitialized is null by default.

- There is no arrow operator ->

```
String s = "Hello";
```



```
s = s + "World";
```

More on passing strings

~~void~~ ^{string} change (String inside) {

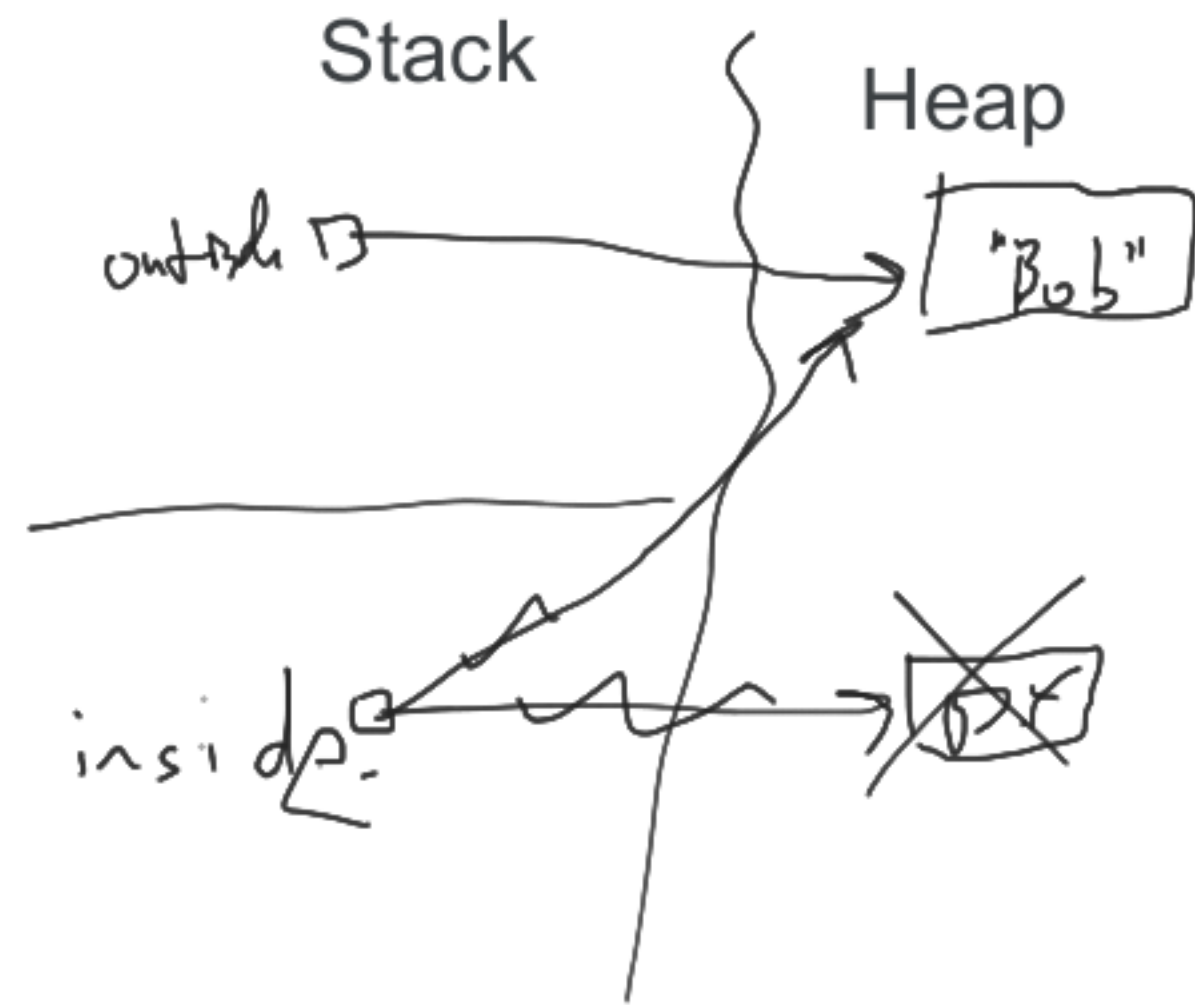
inside = "Diff";
return inside;

}

String outside = "Bob";

outside.change (outside);

System.out.println (outside); // prints "Bob"



Memory Management

- All objects/instances must be created explicitly with "new"
- No values are on the stack
- All objects are on the heap
- Automatic Garbage Collection
 - no "delete" keyword
 - when an object has nothing pointing to it, it is garbage collected automatically

Java Classes

- Single file structure
 - Each class is in a separate file
 - Each class is in a single file with the implementation and the declaration together
- Other Differences
 - "protected" has a different meaning
 - no "virtual" keyword because all methods are virtual
 - If you don't want a method overridden, you mark it as "final"
 - calling methods on a superclass uses the "super" keyword

Java Style

- camelCase is preferred
- functions and variables are lower-case