Storage allocated before your program runs

Global (static)

Stack & return stack call stack

Heap

Java garbage collects

local

class instances (new)

malloc/free


```javascript
let ob = null;
```

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$ob = null$
memory leak

tools to analyze, detect, etc...

Object \( ob \) = new ~

\( ob \).doIt();

\( ob = null \)
int myVal = 17;
int *anotherVal = 24;

17

anotherVal

17
Java

```java
int myValue = 17;

String myString;
```
String myString = "Hello";

String* myString = new String("Hello");

Object* String = new String("Hello");
```java
public static void main(String[] args) {
    CardCatalog cc = new CardCatalog();
}
```
Polymorphism

may form

The ability to treat an object of one type as if it were a different type.
A circle is a shape

A square is a shape