Building Blocks

Local Variable Type Inference (LVTI)

Local Variable Type Inference

- this feature is introduced in Java 10
- local variable can be used only with local variables
- type inference the type of the variable is inferred by the compiler var a = 5;
- in this example, a is inferred to be of type int
 - and this will stay so for the duration of the variable scope

```
var a = "John Wayne"; // DOES NOT COMPILE
```

```
// you cannot assign null to LVTI (it's impossible to infer type)
var s = null; // DOES NOT COMPILE
// var is NOT the reserved word (for backward compatibility reasons)
public class Var {} // OK
var var = 5; // OK
Var var = new Var(); // OK
// remember - only local variables!
public int sum(var a, var b) {
 int result = a + b;
 return result;
} // DOES NOT COMPILE
```

```
// practical usage
// old way
SomeClassWithVeryVeryLongName myInstance = new SomeClassWithVeryVeryLongName();
// new way
var myInstance = new SomeClassWithVeryVeryLongName();
// old way
ClientList<Client> clientList =
 new SomeClassWithVeryVeryLongName().getClientList();
   new way
var clientList = new SomeClassWithVeryVeryLongName().getClientList();
```