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Java Scope

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Java Scope

In Java, variables are only accessible inside the region they are created. This is called **scope**.

Method Scope

Variables declared directly inside a method are available anywhere in the method following the line of code in which they were declared:

Example

```
public class Main {
  public static void main(String[] args) {

    // Code here CANNOT use x

    int x = 100;

    // Code here can use x
    System.out.println(x);
```

```
    }
  }
```

Block Scope

A block of code refers to all of the code between curly braces `{}` .

Variables declared inside blocks of code are only accessible by the code between the curly braces, which follows the line in which the variable was declared:

Example

```java
public class Main {
  public static void main(String[] args) {

    // Code here CANNOT use x

    { // This is a block

      // Code here CANNOT use x

      int x = 100;

      // Code here CAN use x
      System.out.println(x);

    } // The block ends here

    // Code here CANNOT use x

  }
}
```
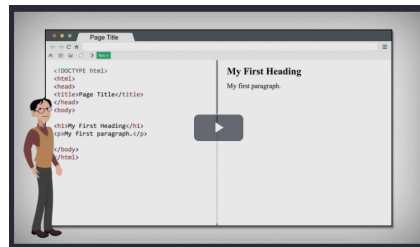
A block of code may exist on its own or it can belong to an `if`, `while` or `for` statement. In the case of `for` statements, variables declared in the statement itself are also available inside the block's scope.

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