

Legends and Cheatsheets

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Class definitions

```
Rectangle subclass: #Box
instanceVariableNames: 'height'
classVariableNames: ''
package: 'MyPackage'
```

```
class Box {
  protected int height;
  ...
}
```

Constructors

```
Box >> initialize
super initialize.
height := 100
```

```
public Box() {
    super();
    height = 100;
}
```

SetUp

```
SetTestCase >> setUp
super setUp.
empty := Set new.
```

```
@Before
public void setUp(){
  empty = new Set();
}
```

Test Methods

```
SetTestCase >> testAdd
empty add: 5. "Stimulus"
empty add: 5.
self assert: empty size equals: 1 "Check"
```

```
@Test
public void testAdd(){
  empty.add(5); //Stimulus
  empty.add(5);
  assertEquals(empty.size(), 1); "Check"
}
```

Syntactic Elements

| | Pharo | Java |
|------------------------|------------------|-------------|
| | | |
| comment | "a comment" | \\ or /* */ |
| character | \$c \$# \$@ | |
| string | 'lulu' 'l"idiot' | "lulu" |
| symbol (unique string) | #mac #+ | |
| literal array | #(12 23 36) | [int] |
| boolean | true, false | |
| undefined | nil | null |
| point | 10@120 | |
| | | |



Syntactic Elements II

| | Pharo | Java |
|------------------|----------|-------------|
| temp declaration | temp | int temp; |
| return | ^ true | return true |
| assignment | x := 12 | x = 12 |
| separator | x := 12. | x = 12; |



Essential Constructs

Messages

```
1 class
1 + 2
self send: aMail to: stef
```

```
1.getClass()
1 + 2
this.sendTo(aMail,stef)
```

Lexical closure definition and execution

```
[:x|x+2] value: 5 >>> 7
```

A course by

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