Cheatography

Java basics Cheat Sheet

by [deleted] via cheatography.com/121063/cs/22029/

Compile

```
javac Program.java //compile
java program,Program
javac -Xlint:unchecked Program.java //check warnings
```

File

```
package program;
public class Program{
  public static void main(String[] args){ ... }
```

Imports

```
import java.util.*;
  java.util.ArrayList;
  java.util.Scanner;
import java.io.*;
import java.math.*;
```

Modifiers

public - pristupne odvsadial
protected - v ramci package, triedy a podtried
private - v ramci triedy
(no modifier) - v ramci package
abstract - neimplementovana metoda / trieda
final
  var - nemenna
  method - neda sa Override
  class - neda sa dedit
static - methods sa tykaju celej triedy nie konkr. instancie

Keywords

extends

```
//vytvaranie podtried
class Shape { ... }
class Circle extends Shape { ... }
```

instanceof //boolean

```
//je instanciou triedy
if (x isinstanceof Shape){ ... }
```

@Override

```
//pred prekryvanou metodou
```

super

```
//volanie metody z nadtriedy v podtriede
super.method();
```

this

```
//premenna this je referencia na konkr. objekt, na kt. bola metoda zavolana
//napr.
class Contact {
   private String email;
   public void setName(String name) {
       this.name = name; }
}
```

I/O

```
//KONZOLA
System.out.print(String); / System.out.println(String);
System.out.format("%x",var);
//BUFFERED READER
BufferedReader input = new BufferedReader(new
   InputStreamReader(System.in));
String line = input.readLine() //null ak uz koniec
//SCANNER
Scanner input = new Scanner(System.in);
input.hasNext(); //boolean
input.next(); //dalsi znak
input.nextInt(); //convert. na int
//FILE input - BufferedReader/Scanner
// System.in -> "file.txt"
input.close()
//FILE output - PrintStream
PrintStream output = new PrintStream("file.txt");
output.print/println/format(String);
output.close();
```

Useful

ArrayList

```
list.size() // # prvkov
list.get(i) / ,add(x) / .set(i,x);
ArrayList<type> newList = new ArrayList<type>(list)
   //skopirovanie obsahu do novej instancie
```

String

```
text.length() //dlzka
modText = text.substring(beg_i,end_i);
   //copy string od do
text = String.format("%x",var); //format ako printf
```

Useful (cont)

```
char x = text.charAt(i);
```

Generic

```
class Node <T> {
  private T data;
  public Node(T data){
    this.data = data; }
  public T getData() {
    return data; }
```

By **[deleted]**
cheatography.com/deleted-121063/

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