

Java Fundamentals Cheat Sheet

by sschaub via cheatography.com/1000/cs/464/

Java Data Types	
byte / short / int / long	-123, 10
float / double	235.13
char	'U'
boolean	true, false
String	"Greetings from earth"

Java Statements If Statement if (expression) {

```
statements
} else if ( expression ) {
 statements
} else {
```

While Loop

statements

```
while ( expression ) {
 statements
```

Do-While Loop

```
do {
 statements
} while ( expression );
For Loop
for (int i = 0; i < max; ++i) {
 statements
For Each Loop
```

Switch Statement

```
for ( var: collection ) {
 statements
```

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Java Statements (cont) switch (expression) { case value: statements break: case value2. statements break; default: statements **Exception Handling** statements;

Java Data Conversions

String to Number

statements;

} finally { statements;

int i = Integer.parseInt(str); double d = Double.parseDouble(str);

} catch (ExceptionType e1) {

} catch (Exception e2) {

catch-all statements;

Any Type to String

String s = String.valueOf(value);

Numeric Conversions

int i = (int) numeric expression,

Java String Methods		
s.length()	length of s	
s.charAt(/)	extract Ith character	
s.substring(start, end)	substring from <i>start</i> to <i>end</i> -1	
s.toUpperCase()	returns copy of s in ALL CAPS	
s.toLowerCase()	returns copy of s in lowercase	
s.indexOf(x)	index of first occurence of x	
s.replace(old, new)	search and replace	
s.split(regex)	splits string into tokens	
s.trim()	trims surrounding whitespace	
s.equals(s2)	true if s equals s2	
s.compa- reTo(<i>s2</i>)	0 if equal/+ if s > s2/- if s < s2	

See http://docs.oracle.com/javase/6/docs/api/java/lang/String.html for more.

java.util.ArrayList Methods

/.add(itm)	Add itm to list
/.get(/)	Return Ith item
/.size()	Return number of items
/.remove(/)	Remove Ith item
l.set(i, val)	Put val at position i

ArrayList<String> names = new ArrayList<String>();

See http://docs.oracle.com/javase/6/docs/api/java/util/ArrayList.html for more.

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java.util.HashMap Methods

m.put(key, value) Inserts value with keym.get(key) Retrieves value with key

m.conta- true if contains key insKey(key)

HashMap<StÂrinÂg,String> names = new HashMap<StÂrinÂg, String>();

See http://docs.oracle.com/javase/6/d-ocs/api/java/util/HashMap.html for more.

Java Hello World

import java.util.Date;
public class Hello {
 public static void main(String[] args) {
 System.out.println("Hello, world!");
 Date now = new Date();
 System.out.println("Time: " + now);
 }
}

- * Save in Hello.java
- * Compile: javac Hello.java
- * Run: java Hello

Java Arithmetic Operators

x + y add x - y subtract
x * y multiply x / y divide
x % y modulus ++x / x++ increment
--x / x-- decrement

Assignment shortcuts: x *op*= y Example: x += 1 increments x

Java Comparison Operators

x < y	Less	x <= y	Less or eq
x > y	Greater	x >= y	Greater or eq
x == y	Equal	x != y	Not equal

Java Boolean Operators

! x (not) x && y (and) x || y (or)

Java Text Formatting

printf style formatting

 $\label{eq:system.out.printf} System.out.printf("Count is %d\n", count); $$s = String.format("Count is %d", count); $$MessageFormat style formatting$

s = MessageFormat.format(

"At {1,time}, {0} eggs hatched.", 25, new Date());

Individual Numbers and Dates

- s = NumberFormat.getCurrencyInstance() .format(x);
- s = new SimpleDateFormat(""h:mm a"")
 .format(new Date());
- s = new DecimalFormat("#,##0.00") .format(125.32);

See http://docs.oracle.com/javase/6/docs/api/java/text/package-frame.html for MessageFormat and related classes



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