

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 boolean true, false "Greetings from earth" Strina

Java Statements

```
If Statement
if (expression) {
 st atements
} else if ( expression ) {
 st atements
} else {
 st atements
```

While Loop

```
while ( expression ) {
 st atements
```

Do-While Loop

```
do {
 st atements
} while ( expression );
```

For Loop

```
for ( int i = 0; i < max; ++i) {
 st atements
```

For Each Loop

```
for (var: collection) {
 st atements
```

Switch Statement

```
switch ( expression ) {
 case value:
  st atements
 break;
 case value2:
 statements
 break:
 default:
  st atements
```

Exception Handling

```
try {
 statements;
} catch (ExceptionType e1) {
 statements;
} catch (Exception e2) {
 catch-all statements:
} finally {
 statements:
```

Java Data Conversions

String to Number

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

Any Type to String

String s = String.valueOf(value);

Numeric Conversions

int i = (int) numeric expression:

Java String Methods s.length() length of ss.charAt(i)extract ith character s.substring(start, substring from start to end-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 xs.replace(old, new) search and replace splits string into tokens s.split(regex) s.trim() trims surrounding whitespace s.equals(s2) true if s equals s2 s.compareTo(s2) 0 if equal/+ if s > s2/- if s < s2

java.util.ArrayList Methods

ng/String.html for more.

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

See http://docs.oracle.com/javase/6/docs/api/java/la

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

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

java.util.HashMap Methods

m.put(key,value)	Inserts value with key
m.get(key)	Retrieves value with key
m.containsKey(key)	true if contains key

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

See http://docs.oracle.com/javase/6/docs/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 add x - y subtract X + Yx * y multiply x / y divide x % v modulus ++x / x++ increment --x / x-decrement

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

Java Comparison Operators Less Less or eq X < VX <= V Greater or eq Greater X > VX >= Vx != y Not equal Equal

Java Boolean Operators					
! x (not)	x && y (and)	x y (or)			

Java Text Formatting

X == V

printf style formatting

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

Cheatographer



This cheat sheet was published on 17th July, 2012 and was last updated on 17th July, 2012

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