

Java Fundamentals Cheat Sheet by sschaub via cheatography.com/1000/cs/464/

Java Statements (cont)

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 { statements While Loop while (expression) { statements **Do-While Loop** statements } while (expression); For Loop for (int i = 0; i < max; ++i) { statements For Each Loop for (var:collection) { statements

```
switch ( expression ) {
 case value:
  statements
  break;
 case value2:
  statements
 default:
  statements
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 Method	ds
s.length()	length of s
s.charAt(i)	extract ith character
s.substring(start, end)	substring from start to end-1
s.toUpperCase()	returns copy of s in ALL CAPS
s.toLowerCase()	returns copy of <i>s</i> in lowercase
s.indexOf(x)	index of first occurence of <i>x</i>
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.compareTo(s2)	0 if equal/+ if $s > s2/-$ if $s < s2$

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

java.util.ArrayList Methods			
I.add(itm)	Add itm to list		
I.get(i)	Return ith item		
I.size()	Return number of items		
I.remove(i)	Remove ith item		
I.set(i, val)	Put val at position i		
ArrayList <string> names = new ArrayList<string>();</string></string>			
See			
http://docs.oracle.com/javase/6/docs/api/java/util/			
ArrayList.html for more.			



Switch Statement

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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<StÂrinÂg,String> names = new HashMap<StÂrinÂg, 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

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

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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