Cheatography

Java Cheat Sheet

by CommanderJak via cheatography.com/121316/cs/22168/

Primitives - raw data types		
int (32-bits)	short (16)	
float (32)	double (64)	
char (16)	long (64)	
byte (8)	boolean (1)	

Wrapper Class - object version of primitive, can convert by un/autoboxing Literal - represents a primitive value (d, f, '', " ", L)

Strings - immutable, final sequence of

String Pool	area in Heap that stores String literals to save memory
String s1 =	draws from same
"hi";	memory address
String s2 =	
"hi";	stored in heap not pool
String s3 =	
new String	
("hi");	
StringBuilder	mutable
StringBuffer	+threadsafe

Integer Pool - range -128 to 127

Array - object holding elements of one type

int[] numbers = {1, 2, 3}; int[] numbers = new int[size]; int[][] 2dArray = new int[rows]-[columns]

Object Class - everything inherits from

.toStrin-	prints memory address
g();	
.equa-	checks for same memory
ls();	address
.hashCod-	id not guaranteed to be
e();	unique

Object - an instance of a class Class - blueprint for object

Exceptions/Errors

Exceptions/Errors (cont)

throw	<pre>commands e be thrown useful for testing throw new Exceptio- nType();</pre>
Create Exception	<pre>by extending Exception class public Money Exception{ super("Error Messag- e")};</pre>

try{must have try & catch/finally not just try} catch(ExceptionType e) { catches+ but only 1 runs} finally{always executes}; Catches go from specific exception to general

Advanced Operators

+ Concat- enation	only operator overloading in Java
% Modulus	returns reminder (7 % 5 = 2)
! Not	returns opposite boolean
++/ Increment	<pre>pre (println (++5) =6) post (println (5++) =5)</pre>
&&/ And/Or	short-circuit evaluates one side
& / And/Or	evaluates both sides
^ Exclusive Or	both cannot be true
? Ternary	(if condition)? return:else return

Access Modifiers all Public Private only class

Protected also children only package

Scopes - where does reference extend

Class		sta	tic	
Object		ins	tanc	e
Method		loc	al	
Block		loc	al	
Static	{block	runs	at	beginning

File I/O - data access outside JRE FileInput/OutputSteam read/write bytes FileReader/Writer by characters BufferedReader/Writer line by line BufferedWriter bw = new Buffer-

edWriter (new FileWriter(".../java/src/main/resources.io.text"));

final Keyword

Class	cannot be extended
Method	cannot be overridden
Variable	cannot change value

Terms	
Java	classed-based object-oriented programming (OOP), write once run anywhere (WORA), automatic memory management, pass by value or copy reference, strong types
IDE	Integrated Development Environment
Linter	auto compiles and catches errors in IDE
Reflection API	allows java to write code at runtime where classes, fields, methods are treated as objects
Recursion	calling a method within itself
Code Coverage	how much reachable tested code

Memory

MetaSpace	unchanging info
HeapSpace	variable content
StackSpace	method calls/variable
	references

stackoverflow, syntax...

Checked/C- cannot compile,
ompile compiler sees
FiloIO, SQLException...

Unchecked/Ru- not required to be
handled
NullPointer, Arithmetic...

throws throws e to method
caller

cannot recover from

when class first accessed,
initialization);



Error

By CommanderJak

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