## **Appendixes**

## Appendix A: Java/Groovy<sup>1</sup>

Feature	Java	Groovy
Public class	public class	class
Loops	<pre>for(Type it : c){}</pre>	c.each {}
Lists	List list = asList(1,2,3);	def list = [1,2,3]
Maps	Map m =; m.put(x,y);	def m = [x: y]
Function def.	<pre>void method(Type t) {}</pre>	<pre>def method(t) {}</pre>
Mutable value	Type t	def t
Immutable value	final Type t	final t
Null safety	(x == null ? null : x.y)	x?.y
Null replacement	(x == null ? "y" : x)	x ?: "y"
Sort	<pre>Collections.sort(list)</pre>	<pre>list.sort()</pre>
Wildcard import	<pre>import java.util.*;</pre>	<pre>import java.util.*</pre>
Var-args	(String args)	(String args)
Type parameters	Class <t></t>	Class <t></t>
Concurrency	Fork/Join	GPars

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<sup>&</sup>lt;sup>1</sup>Version 1.3 of this cheat sheet.

## No Java Analog

Feature	Groovy	
Default closure arg.	it	
Default value	<pre>def method(t = "yes")</pre>	
Add method to object	<pre>t.metaClass.method = {}</pre>	
Auto-delegate	@Delegate	
Extension methods	Categories	
Rename import	import java.util.Vector as Vect	

## **Tricks**

Feature	Groovy	
Range	<pre>def range = [az]</pre>	
Slice	<pre>def slice = list[03]</pre>	
<< Operator	list << addMeToList	
Cast operation	<pre>def dog = [name: "Fido", speak:{println "woof"}] as Dog</pre>	
GString	<pre>def gString = "Dog's name is \${dog.name}"</pre>	