

Java 8 Cheat Sheet by marb via cheatography.com/32786/cs/10154/

Lambdas		Stream API - Aggre	egation
java.util.function	Package	Those APIs conside	er the whole set
<pre>@FunctionalInterface (String text) -> System.out.println(text)</pre>	Optional. Force a compiler error if the	.sorted() .min()/.max()	
		.groupingBy(Gruppieren gleicher Elemente
	interface	.distinct()	make list unique based on lambda
	has more than one	.count()	
	abstract	Stream API - Ergeb	onisse
	method.	forEach / forEachOrdered	
(text) -> System.out.println(text)	Anonymous function.	toArray(String[]::nev	v)
System.out::println		collect(Collectors.to	List());
Default/static method in interface		collect(Collectors.toCollection(ArrayList::new));	

Stream API

100).intValue())

.limit(5).forEach(...)

Stream API - Generatoren		
Iterate / Range	Automatische Erzeugung von IntStream durch Iteration	
Builder	Aufbau eines Streams mit Elementen ohne Collection	
Of	Sammlung ovn Objekten als Argument	
Generate	Supplier Lambda zur Generierung von Einträgen	
Files (NIO) ZinFile JarFile Patterns (RegEx)		

Stream API - Transformation			
map(lambda)	Objekte von Eingabetyp in Ausgabetyp umwandeln		
flatMap(lambda)	Collection-Elemente in Stream-Elemente begradigen (Array[][] -> Array[])		

Stream AFT - Combining / Shortening	3
.filter(p -> p.name.startsWith("M"))	
.reduce((x1, x2) -> x1+ x2)	y = ((x1 + x2) + x3) +
.collect(Collectors.joining(", "));	e1 + ", " + e2 +
.limit(5)	limit number of results
.skip(5)	skip elements

List<Person> persons1, persons2; Stream.of(persons1, persons2) // stream of lists .flatMap(ps -> ps.stream()) // stream of obj .map(p -> p.firstName + " " + p.name) // stream of name .forEach(System.out::println); IntStream.iterate(0, i -> i + 1) .limit(10) .forEach(System.out::print); Stream.builder() .add("Wir ").add("bauen ").add("einen Satz.").build() .forEachOrdered(...); Stream.generate(() -> Double.valueOf(Math.random() *

Java I/O, NIO Files.lines(Paths.get(this.class.getResource("file.txt").toUR .count();



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Date/Time API

LocalTime

LocalDate

LocalDateTime

ZonedDateTime.of() / .now(ZoneId.of("CET"));

Instant Maschinenzeit, genauer, ohne Zeitzone

TemporalAdjuster

Duration

DateTimeFormatter.ISO_OFFSET_DATE_TIME // 2011-12-03T10:15:30+01:00

DateTimeFormatter.ofLocalizedDate(FormatStyle.LONG) // June 20, 2014; 10:15:58 GMT+1

Optional

Optional < String > result = doSomething(); if (result.isPresent()) result.get();

String result = doSomething().orElse("unknown");

doSomething().ifPresent(lambda);

Repeatable Annotation

```
@Repeatable(TableAnnos.class)
@Retention(RetentionPolicy.RUNTIME)
public @interface Table {
    String value();
}
@Retention(RetentionPolicy.RUNTIME)
public @interface TableAnnos {
    Table[] value();
}
@Table("Customer")
@Table("Employee")
public class Person {
}
```



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