

Testunterstützung		
pdfutil	Text & Pixelgenauer Vergleich von PDF Dokumenten	<a href="https://github.com/vinsguru/pdfutil">https://github.com/vinsguru/pdfutil</a>
Awaitility	Testen nebenläufiger Abschnitte	<a href="https://github.com/awaitility/awaitility">https://github.com/awaitility/awaitility</a>
EqualsVerifier	Test Equals & Hashcode Implementierung	<a href="https://jqno.nl/equalsverifier/">https://jqno.nl/equalsverifier/</a>
Java Faker	Erzeugung von Zufallsdaten	<a href="http://dius.github.io/java-faker/">http://dius.github.io/java-faker/</a>
Make It Easy	Builder für Testdaten	<a href="https://github.com/npryce/make-it-easy">https://github.com/npryce/make-it-easy</a>
Log Collectors	Überprüfung von Log Meldungen	<a href="https://github.com/haasted/TestLogCollectors">https://github.com/haasted/TestLogCollectors</a>
System Rules	Überprüfung von Eingaben/Ausgaben sowie Systemproperties oder Umgebungsvariablen	<a href="https://stefanbirkner.github.io/system-rules/">https://stefanbirkner.github.io/system-rules/</a>
System-lambda	Replacement für System-rules mit JUnit 5 Support	<a href="https://github.com/stefanbirkner/system-lambda">https://github.com/stefanbirkner/system-lambda</a>
ArchUnit	Überprüfung der Projektarchitektur	<a href="https://www.archunit.org/">https://www.archunit.org/</a>
PIT	Mutationstest: Überprüfung der Qualität der Tests	<a href="http://pitest.org/">http://pitest.org/</a>
JMockit	Mockframework Proxy and Classloader based	<a href="https://jmockit.github.io/">https://jmockit.github.io/</a>
WireMock	Mock für REST Endpunkte - Testen des REST Clients	<a href="http://wiremock.org/">http://wiremock.org/</a>
Rest-assured	Mocken des REST Clients - Test der REST Endpunkte	<a href="http://rest-assured.io/">http://rest-assured.io/</a>
Mockito	Mockframework: Proxy based	<a href="https://site.mockito.org/">https://site.mockito.org/</a>
Powermock	Mockframework: Classloader based	<a href="https://powermock.github.io/">https://powermock.github.io/</a>
EasyMock	Mockframework: Proxy based	<a href="http://easymock.org/">http://easymock.org/</a>
jMock	Mockframework:	<a href="http://jmock.org/">http://jmock.org/</a>

Testunterstützung (cont)		
JUnit	Java Testframework	<a href="https://junit.org">https://junit.org</a>
TestNG	Java Testframework	<a href="https://testng.org">https://testng.org</a>
Die Liste basiert auf folgenden Quellen:		
* <a href="https://www.bibsonomy.org/bibtex/29e95a20ee8b6be7f84eaf7f630-0664fb/huluvu424242">https://www.bibsonomy.org/bibtex/29e95a20ee8b6be7f84eaf7f630-0664fb/huluvu424242</a>		
* <a href="https://de.slideshare.net/mpeshev/jmockit-framework-overview">https://de.slideshare.net/mpeshev/jmockit-framework-overview</a>		
* <a href="http://www.testautomationguru.com/introducing-pdfutil-to-compare-pdf-files-extract-resources/">http://www.testautomationguru.com/introducing-pdfutil-to-compare-pdf-files-extract-resources/</a>		

Sprachparadigmen	
Object-Functional	<a href="http://www.vavr.io">http://www.vavr.io</a>

Online Tools	
IDEs auf Javascript Basis	<a href="https://stackblitz.com">https://stackblitz.com</a>
Online Collaboration	<a href="https://plnkr.co/">https://plnkr.co/</a>
Badges Generator	<a href="https://shields.io/">https://shields.io/</a>

Load, Edit, Save von DSL Dokumenten		
Library	Anwendungsfall	Homepage
JSOUP	HTML parsen	<a href="https://jsoup.org/cookbook/extracting-data/dom-navigation">https://jsoup.org/cookbook/extracting-data/dom-navigation</a>
Java Poet	Schreiben Java Source Files	<a href="https://github.com/square/javapoet/">https://github.com/square/javapoet/</a>
Maven Model	Lesen, Ändern, Speichern der pom.xml	<a href="http://maven.apache.org/ref/3.6.0/maven-model/index.html">http://maven.apache.org/ref/3.6.0/maven-model/index.html</a>
org.json	Schmalere JSON Parsen	<a href="https://github.com/stleary/JSON-java">https://github.com/stleary/JSON-java</a>
Jackson Databind	Lesen, Ändern, Speichern von JSON Files	<a href="https://github.com/FasterXML/jackson-databind">https://github.com/FasterXML/jackson-databind</a>
Justify	Lesen, Ändern, Speichern von JSON	<a href="https://github.com/leadpony/justify">https://github.com/leadpony/justify</a>
JSON Schema	Lesen, Ändern, Speichern von JSON	<a href="https://github.com/everit-org/json-schema">https://github.com/everit-org/json-schema</a>
Manifold	JSON, Properties, ...	<a href="http://manifold.systems/">http://manifold.systems/</a>
AsciiDoctorJ-Experiments	Lesen, Ändern, Speichern von AsciiDoc	<a href="https://jmini.github.io/asciidoc-rj-experiments/">https://jmini.github.io/asciidoc-rj-experiments/</a>



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### Load, Edit, Save von DSL Dokumenten (cont)

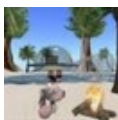
Ascii-doctorJ	Lesen, Ändern, Speichern von AsciiDoc	<a href="https://asciidoctor.org/docs/asciidoctorj/#reading-the-document-tree">https://asciidoctor.org/docs/asciidoctorj/#reading-the-document-tree</a>
Flexmark Java	Lesen, Ändern, Speichern von Markdown	<a href="https://github.com/vsch/flexmark-java">https://github.com/vsch/flexmark-java</a>
JAVA Klasse Properties	Lesen, Ändern, Speichern von Property Dateien	<a href="https://docs.oracle.com/javase/10/docs/api/java/util/Properties.html">https://docs.oracle.com/javase/10/docs/api/java/util/Properties.html</a>
BCEL	Java Bytecode Manipulation	siehe Apache Commons
CSV	CSV Dateien	siehe Apache Commons

### Implementierung stupider Konstruktionen

guava	Generiert die Java Service Definitionen	<a href="https://github.com/google/guava">https://github.com/google/guava</a>
dagger	DI für den Java SE Bereich	<a href="https://github.com/google/dagger">https://github.com/google/dagger</a>
Jib	Erzeugung von Docker Images aus dem Java Build heraus - ohne Dockernutzung.	<a href="https://github.com/GoogleContainerTools/jib">https://github.com/GoogleContainerTools/jib</a>
pdfClown	Erzeugung und Manipulation von PDF Dokumenten	<a href="https://pdfclown.org/">https://pdfclown.org/</a>
jasper-Report	Design und Erzeugung von Reports im PDF Format	<a href="https://community.jaspersoft.com/project/jasperreports-library">https://community.jaspersoft.com/project/jasperreports-library</a>
BVal (bval--jsr,bval--extras)	Validatoren Implementierung des Bean Validation Standards 2.0	<a href="http://bval.apache.org/">http://bval.apache.org/</a>
Hibernate Validator	Bean Validation 2.0 Referenzimplementierung	<a href="https://hibernate.org/validator/">https://hibernate.org/validator/</a>

### Apache Commons

CLI	Parsen der Kommandozeilen Eingabe	<a href="http://commons.apache.org/proper/commons-cli/">http://commons.apache.org/proper/commons-cli/</a>
Compress	Packen/Entpacken	<a href="http://commons.apache.org/proper/commons-compress/">http://commons.apache.org/proper/commons-compress/</a>
CSV	Lesen, Ändern, Speichern von CSV Dateien	<a href="http://commons.apache.org/proper/commons-csv/">http://commons.apache.org/proper/commons-csv/</a>
Net	Client Implementierung bekannter Netzwerkprotokolle	<a href="http://commons.apache.org/proper/commons-net/">http://commons.apache.org/proper/commons-net/</a>
VFS	Virtuelles Filesystem	<a href="http://commons.apache.org/proper/commons-vfs/">http://commons.apache.org/proper/commons-vfs/</a>
BCEL	JVM ByteCode Manipulation	<a href="http://commons.apache.org/proper/commons-bcel/">http://commons.apache.org/proper/commons-bcel/</a>
Codec	Encode/Decode z.B. base64	<a href="http://commons.apache.org/proper/commons-codec/">http://commons.apache.org/proper/commons-codec/</a>
HttpComponents Client	HttpClient Implementierung	<a href="http://hc.apache.org/index.html">http://hc.apache.org/index.html</a>



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