Jakarta Commons

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don’t re-invent the wheel

Increase Productivity

Re-use to Excel

- Faster
- Better designed
- Smaller team
- Less time

How did we do it?

Know your libraries!

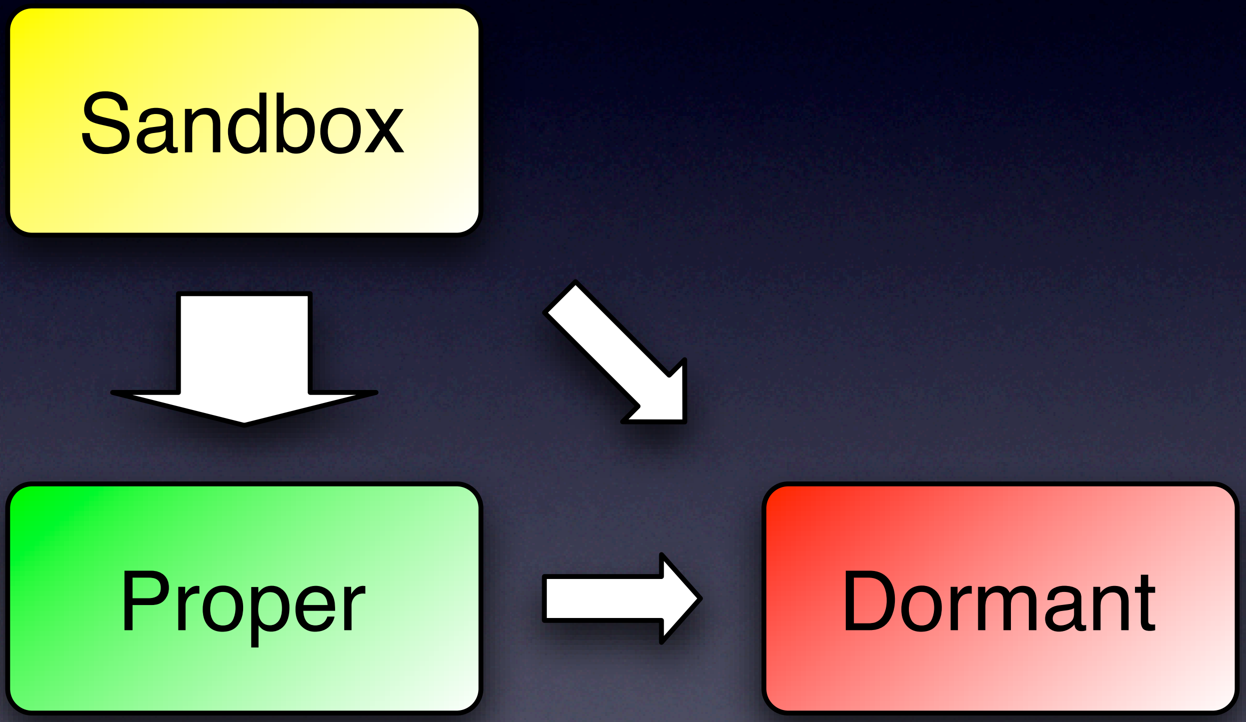
Sharing QA

Heritage

Charter

*“Creation of small **re-useable** components that can be used across projects. They are supposed to have as **few dependencies** as possible, meant to be **well tested** and **compatible** with the **current** de-facto standard version of the **JDK**”*

Growth



Project Stats

- Sandbox 10
- Proper 34
- Dormant 38

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Proper

CLI

```
Options options = new Options();
options.addOption("h", false, "display usage");

CommandLine line = parser.parse(options, args);
if(line.hasOption("h")) {
  HelpFormatter f = new HelpFormatter();
  f.printHelp("myprogram", options);
  ...
```

Collections

```
Map map = new CaseInsensitiveMap();
map.put("One", "One");
map.get("ONE");
```

Email

```
SimpleEmail email = new SimpleEmail();
email.setHostName("mail.myserver.com");
email.addTo("jdoe@somewhere.org", "John Doe");
email.setFrom("me@apache.org", "Me");
email.setSubject("Test message");
email.setMsg("A simple test of commons-email");
email.send();
```

IO

```
InputStream in;
OutputStream out;

IOUtils.copy(in, out);

...

byte[] data = IOUtils.toByteArray(in);
```

JXPath

```
XPathContext context =
  JXPathContext.newContext(dom);

String value = (String)
  context.getValue("/my/xpath/to/value");
```

Lang

```
Map colorMap = MapUtils.toMap(new String[][] {{
 {"red",   "#FF0000"},
 {"green", "#00FF00"},
 {"blue",  "#0000FF"}
});
```

Logging

```
public class C {
  private Log log = LogFactory.getLog(C.class);
  ...
      if (log.isDebugEnabled()) {
        log.debug("log message");
      }
```

Net

```
NNTPClient client = new NNTPClient();
client.connect("news.server.net");

NewsgroupInfo[] = client.listNewsgroups();

client.disconnect();
```

Primitives

```
ArrayByteList list = new ArrayByteList();

list.add(byte);
list.removeElementAt(index);

byte[] bytes = list.toArray();
```

VFS

```
FileSystemManager fs = VFS.getManager();
FileObject jar = fs.resolveFile(
  "jar:lib/aJarFile.jar" );

FileObject[] childs = jar.getChildren();
for (int i=0; i < childs.length; i++ ) {
  ...
```

Overview

attributes, beanutils, betwixt, chain, **cli**, codec, **collections**, configuration, daemon, dbcp, dbutils, digester, discovery, el, **email**, fileupload, httpclient, **io**, jelly, jexl, **jxpath**, **lang**, launcher, **logging**, math, modeler, **net**, pool, **primitives**, scxml, transaction, validator, **vfs**

Sandbox

CSV

```
String[][] data = CSVParser.parse(string);

CSVParser parser = new CSVParser(reader,’;’);
String[][] data = parser.getAllValues();
```

Exec

```
OutputStream out;
OutputStream error;

CommandLine cl = new CommandLineImpl();
cl.setExecutable("path/to/exe");
cl.addArgument("arg");
exec.execute(cl, out, error);
```

Javaflow

```
class MyRunnable implements Runnable {
  public void run() {
    for(int i=0; i<10; i++ )
      Continuation.suspend();
  }}
Continuation c = Continuation.startWith(
                      new MyRunnable());
Continuation d = Continuation.continueWith(c);
...
```

JCI

```
JavaCompiler compiler =
  new EclipseJavaCompiler();
ResourceStore store =
  new MemoryResourceStore();

CompilationResult result = compiler.compile(
 new String[] { "org/MyClass.java" },
 new FileResourceReader(directory),
 store );
```

OpenPGP

```
keyRing = new BouncyCastleKeyRing(
                 secret, public, password);
signer = new BouncyCastleOpenPgpSigner();
signer.detachedSign(
  fileInputStream
  signatureOutputStream,
  keyId,
  keyRing,
  true );
```

Proxy

```
o = (MyObject) new CglibProxyFactory()
    .createInterceptorProxy(
       new MyObjectImpl(),
       new LoggingInterceptor(log),
       new Class[]{ MyObject.class });
```

Overview

compress, **csv**, **exec**, i18n, id, **javaflow**, **jci**, **openpgp**, pipeline, **proxy**

Dormant

Overview

benchmark, cache, clazz, codec-mulipart, combo, contract, events, feedparser, filters, functor, grant, graph2, http, jex, jjar, jpath, jrcs, jux, latka, mapper, messenger, pattern, periodicity, reflect, resources, rupert, scaffold, services, servlet, simplestore, tbm, test, threading, threadpool, workflow, xmlio, xmlunit, xo

Not invented here

We need you!

Thanks!

Javamagazin

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Jakarta Commons

Die Java-Standard-Bibliotheken von Apache verstehen und anwenden

S&S