

Compte-rendu TD : Ant+Ivy

Exercice 3 :

Dépôt github : <https://github.com/davidneyron/ProjectIvy>

Exercice 4 :

```
dneiron@SA204-14:~/outil_dev/ProjectIvy$ ant
Buildfile: /promo2019/dneiron/outil_dev/ProjectIvy/build.xml

download-ivy:
  [mkdir] Created dir: /promo2019/dneiron/outil_dev/ProjectIvy/ivy
  [echo] installing ivy...
  [get] Getting: https://repo1.maven.org/maven2/org/apache/ivy/ivy/2.0.0-beta1/ivy-2.0.0-beta1.jar
  [get] To: /promo2019/dneiron/outil_dev/ProjectIvy/ivy/ivy.jar

install-ivy:

generate-src:
  [mkdir] Created dir: /promo2019/dneiron/outil_dev/ProjectIvy/src/example

go:
  [echo] using ivy to resolve commons-lang 2.1...
No ivy:settings found for the default reference 'ivy.instance'. A default instance will be used
no settings file found, using default...
[ivy:cachedpath] :: Ivy 2.0.0-beta1 - 20071206070608 :: http://ant.apache.org/ivy/ ::
:: loading settings :: url = jar:file:/promo2019/dneiron/outil_dev/ProjectIvy/ivy/ivy.jar!/org/apache/ivy
/core/settings/ivysettings.xml
[ivy:cachedpath] :: resolving dependencies :: commons-lang#commons-lang-caller;working
[ivy:cachedpath]      confs: [default, master, compile, provided, runtime, system]
[ivy:cachedpath]      found commons-lang#commons-lang;2.1 in public
[ivy:cachedpath] downloading http://repo1.maven.org/maven2/commons-lang/commons-lang/2.1/commons-lang-2.1.
jar ...
[ivy:cachedpath] ..... (202kB)
[ivy:cachedpath] .. (0kB)
[ivy:cachedpath] [SUCCESSFUL ] commons-lang#commons-lang;2.1!commons-lang.jar (1060ms)
[ivy:cachedpath] :: resolution report :: resolve 119ms :: artifacts dl 1064ms

-----
|               | modules | artifacts |
|               | search|downlded|evicted| | number|downlded|
-----+-----+-----+-----+-----+-----+-----+-----+
| default       | 1      | 0        | 0      | 0      | 1      | 1      |
| master        | 1      | 0        | 0      | 0      | 1      | 1      |
| compile       | 1      | 0        | 0      | 0      | 0      | 0      |
| provided      | 1      | 0        | 0      | 0      | 0      | 0      |
| runtime       | 1      | 0        | 0      | 0      | 0      | 0      |
| system        | 1      | 0        | 0      | 0      | 0      | 0      |
-----+-----+-----+-----+-----+-----+
  [echo] compiling...
  [mkdir] Created dir: /promo2019/dneiron/outil_dev/ProjectIvy/build
  [javac] /promo2019/dneiron/outil_dev/ProjectIvy/build.xml:89: warning: 'includeantruntime' was not se
t, defaulting to build.sysclasspath=last; set to false for repeatable builds
  [javac] Compiling 1 source file to /promo2019/dneiron/outil_dev/ProjectIvy/build
  [echo]
  [echo] We are now ready to execute our simple program with its dependency on commons-lang.
  [echo] Let's go!
  [echo]
  [java] standard message : hello ivy !
  [java] capitalized by org.apache.commons.lang.WordUtils : Hello Ivy !

BUILD SUCCESSFUL
```

La commande ant a généré les dossiers :

```
dneyron@SA204-14:~/outil_dev/ProjectIvy$ ls  
build build.xml ivy README.md src
```

Notamment dans le dossier src/example/Hello.java qui est un programme qui dit bonjour avec un majuscule au début...

Exercice 6 :

La tâche go permet de résoudre les problèmes liés aux dépendances, compile et exécute le projet.

Les tags java et javac permettent de lancer ses commandes respectives. :

- javac pour le compilateur java
- java pour exécuter le code

Exercice 7 :

```
<target name="run" depends="go">  
  <java classname="example.Hello">  
    <classpath>  
      <path refid="lib.path.id" />  
      <path location="${build.dir}" />  
    </classpath>  
  </java>  
</target>
```

Exercice 8 :

Première erreur :

/promo2019/dneyron/outil_dev/ProjectIvy/build.xml:89: Reference lib.path.id not found.

Seconde erreur : (en supprimant classpathref="lib.path.id")

/promo2019/dneyron/outil_dev/ProjectIvy/build.xml:89: Compile failed; see the compiler error output for details.

Exercise 10 :

```
[ivy:resolve] :: resolution report :: resolve 914ms :: artifacts dl 8771ms
-----
|          conf          |      modules      |      artifacts      |
|      number| search|downlded|evicted|| number|downlded|
-----+-----+-----+-----+-----+-----+-----+-----+
|      default      | 6 | 5 | 0 | 0 || 6 | 5 |
-----+-----+-----+-----+-----+-----+-----+

go:
  [echo] using ivy to resolve commons-lang 2.1...
  [echo] compiling...
  [javac] /promo2019/dneyron/outil_dev/ProjectIvy/build.xml:95: warning: 'includeantruntime' was not se
t, defaulting to build.sysclasspath=last; set to false for repeatable builds
  [javac] Compiling 1 source file to /promo2019/dneyron/outil_dev/ProjectIvy/build
  [echo]
  [echo] We are now ready to execute our simple program with its dependency on commons-lang.
  [echo] Let's go!
  [echo]

BUILD SUCCESSFUL
```

Exercise 16 :

```
run:
  [java] standard message : hello ivy !
  [java] capitalized by org.apache.commons.lang.WordUtils : Hello Ivy !
  [java] [1]
  [java] [2]
  [java] [3]
  [java] [4]
  [java] [12]
  [java] [5]
  [java] [6]
  [java] [7]
  [java] [8]
  [java] [9]
  [java] Mon max : 12

BUILD SUCCESSFUL
Total time: 0 seconds
```

Exercise 17 :

On obtient un dossier report rempli de fichiers

```
BUILD SUCCESSFUL
Total time: 1 second
dneyron@SA202-22A:~/outil_dev/ProjectIvy$ ls
build  build.xml  compte-rendu.odt  data.csv  ivy  ivy.xml  README.md  report  src
dneyron@SA202-22A:~/outil_dev/ProjectIvy$ cd report && ls
apache-hello-ivy-default.graphml  apache-hello-ivy-default.html  ivy-report.css
```

Exercise 19 :

```
body {  
    font-family: "Trebuchet MS", Verdana, Geneva, Arial, Helvetica, sans-serif;  
    font-size: small;  
}  
  
div#logo {  
    float: right;  
    padding-left: 10px;  
    padding-bottom: 10px;  
    background: white;  
    text-align: center;  
}  
  
#logo img {  
    border: 0;  
}  
  
div#date {  
    font-style: italic;  
    padding-left: 60px;  
    padding-bottom: 40px;  
}  
  
h1 {  
    margin-bottom: 2px;  
  
    border-color: #7A9437;  
    border-style: solid;  
    border-width: 0 0 3px 0;  
}  
  
span#module {  
    color: #7A9437;  
    text-decoration: none;  
}  
  
span#organisation {  
    color: black;  
    text-decoration: none;  
}
```

```
<html>
<head>
<META http-equiv="Content-Type" content="text/html; charset=UTF-8">
<title>Ivy report :: hello-ivy by apache :: default</title>
<meta http-equiv="content-type" content="text/html; charset=ISO-8859-1">
<meta http-equiv="content-language" content="en">
<meta name="robots" content="index,follow">
<link rel="stylesheet" type="text/css" href="ivy-report.css">
</head>
<body>
<div id="logo">
<a href="http://ant.apache.org/ivy/"></a>
</div>
<h1>
<a name="apache-hello-ivy"></a><span id="module">hello-ivy</span>
  by
  <span id="organisation">apache</span>
</h1>
<div id="date">
  resolved on
  2017-04-11 15:46:34</div>
<ul id="confmenu">
<li>
<a class="active" href="apache-hello-ivy-default.html">default</a>
</li>
</ul>
<div id="content">
<h2>Dependencies Stats</h2>
<table class="header">
<tr>
<td class="title">Modules</td><td class="value">6</td>
</tr>
<tr>
<td class="title">Revisions</td><td class="value">6
  (0 searched ,
  0 downloaded ,
  0 evicted ,
  0 errors )</td>
</tr>
</table>
</div>
```