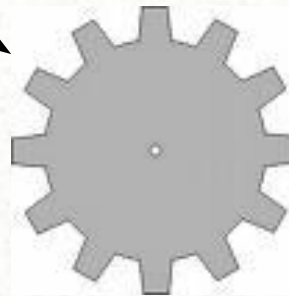
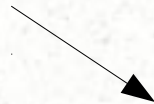
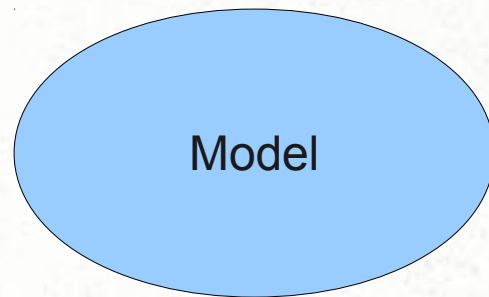


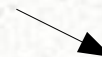
easyMda

- What is MDA
- Why *easyMda*
- Demo
- Questions?

What is MDA



Generator

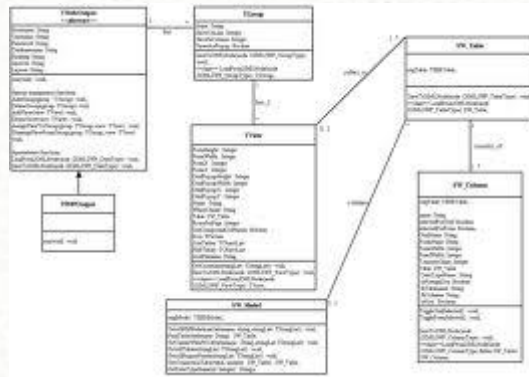


```
1 private static final String[] natoCalls = {  
2     "Alpha", "Bravo", "Charlie", "Delta", "Echo", "Foxtrot", "Golf", "Hotel", "India",  
3     "Juliett", "Kilo", "Lima", "Mike", "November", "Oscar", "Papa", "Quebec", "Romeo",  
4     "Sierra", "Tango", "Uniform", "Victor", "Whiskey", "X-ray", "Yankee", "Zulu"  
5 };  
6  
7 /**  
8  * @brief Returns the NATO call for a letter. eg. F = Foxtrot.  
9  * @param letter A character in range a-z, A-Z or 0-9  
10 */  
11 public static String getNATOCall(char letter){  
12     if(letter >= 'a' && letter <= 'z'){  
13         return natoCalls[letter-'a'];  
14     }  
15     if(letter >= 'A' && letter <= 'Z'){  
16         return natoCalls[letter-'A'];  
17     }  
18     return null;  
19 }
```

Source code

Three kinds of Mda

UML



DSL

```
mkdir hello
cd hello
roo
roo> hint
roo> project --topLevelPackage com.foo
roo> persistence setup --provider HIBERNATE
roo> entity --class ~.Timer --testAutomatically
roo> field string --fieldName message --notNull
roo> hint controllers
roo> controller all --package ~.web
roo> selenium test --controller ~.web.TimerController
roo> gwt setup
roo> perform tests
roo> quit
```



The rest

Xml, Special editor etc

Why not used more often

UML

- Difficult to adapt
- Limited vocabulary (only stereotypes)
- Difficult to keep model and code in sync

DSL

- Very complex and time consuming to Create new template.
- Steep learning curve

easyMda

- Easy to use, Eclipse plugin
- Easy to create model (just Java, intellisense)
- Easy to adapt templates (jsp like Jet engine)
- Easy to create new template (just Java)
- Powerful: Interfaces + Annotations
- Fast
 - to create model (code completion)
 - to generate code (msec's)

Demo

- How to create a wizard in record time.