




















Algorithm CYK










1. Clone the repository.
2. Open Eclipse IDE for Java and DSL Developers - 2022-03 and choose a workspace.
3. Follow the steps shown on this [video](#).
4. Once you do the previews steps, and the Eclipse application opens, you have to create a new input file, in order to do so the user should:
 1. Create a new Java project.
 2. Inside the src, create a new file.
 3. The name of the file should end with the extension gfnc, for example, **test.gfnc**
 4. That way the input file will be converted into a Xtext project.
5. The input should be written in this format, otherwise errors, made with the validator, will appear.

```
W:  b c a
G:
    S -> A B | B A
    A -> C A | a
    B -> B B | b
    C -> B A | c
```

6. Now, the important files are:
 - a. The algorithm itself.
 - ▼  org.xtext.gfnc [Algorithm-CYK main]
 - ▼  src
 - >  org.xtext.example.gfnc
 - >  org.xtext.example.gfnc.generator
 - >  org.xtext.example.gfnc.scoping
 - >  org.xtext.example.gfnc.validation
 - >  org.xtext.gfnc
 - ▼  org.xtext.gfnc.model
 - >  **AlgorithmCYK.java**
 - b. The specification of the grammar.

- ▼  org.xtext.gfnc [Algorithm-CYK main]
 - ▼  src
 - >  org.xtext.example.gfnc
 - >  org.xtext.example.gfnc.generator
 - >  org.xtext.example.gfnc.scoping
 - >  org.xtext.example.gfnc.validation
 - ▼  org.xtext.gfnc
 -  CYK.xtext
 -  GenerateCYK.mwe2
 - >  org.xtext.gfnc.model

c. The input's validations.

- ▼  org.xtext.gfnc [Algorithm-CYK main]
 - ▼  src
 - >  org.xtext.example.gfnc
 - >  org.xtext.example.gfnc.generator
 - >  org.xtext.example.gfnc.scoping
 - ▼  org.xtext.example.gfnc.validation
 - >  CYKValidator.java
 - >  org.xtext.gfnc
 - >  org.xtext.gfnc.model