

## RECFM Quick reference 0.7.0

```
<plugin>
  <groupId>io.github.epi155</groupId>
  <artifactId>recfm-maven-plugin</artifactId> <!-- the plugin -->
  <version>0.7.0</version>
  <executions>
    <execution>
      <goals>
        <goal>generate</goal>
      </goals>
      <configuration>
        <settings>
          <setting>foo.yaml</setting>
        </settings>
      </configuration>
    </execution>
  </executions>
  <dependencies>
    <dependency>
      <groupId>io.github.epi155</groupId>
      <artifactId>recfm-java-addon</artifactId> <!-- java generate dependency -->
      <version>0.7.0</version>
    </dependency>
  </dependencies>
</plugin>
```

Listing 1: pom.xml: plugin usage example

```
packages:
- name: com.example.test
  classes:
  - name: Foo
    length: 55
    fields:
    - !Abc { name: firstName, at: 1, len: 15 }
    - !Abc { name: lastName, at: 16, len: 15 }
    - !Num { name: birthDate, at: 31, len: 8 }
    - !Abc { name: birthPlace, at: 39, len: 14 }
    - !Abc { name: birthCountry, at: 53, len: 3 }
```

Listing 2: configuration yaml example

```
<dependencies>
  <dependency>
    <groupId>io.github.epi155</groupId>
    <artifactId>recfm-java-lib</artifactId> <!-- java runtime dependency -->
    <version>0.7.0</version>
  </dependency>
</dependencies>
```

Listing 3: addon-java runtime dependencies

classes				
attribute	alt	type	O	default
name		String	✓	
length	len	int	✓	
onOverflow	ovf	enum		\${*:=Trunc}
onUnderflow	unf	enum		\${*:=Pad}
doc		boolean		\${*:=true}
fields		array	✓	

interfaces				
attribute	alt	type	O	default
name		String	✓	
length	len	int	✓	
doc		boolean		\${*:=true}
fields		array	✓	

!Abc: alphanumeric field				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
name		String	✓	
override	ovr	boolean		false
onOverflow	ovf	enum		\${*:=Trunc}
onUnderflow	unf	enum		\${*:=Pad}
check	chk	enum		\${*:=Ascii}
normalize	nrm	enum		\${*:=None}
checkGetter	get	boolean		\${*:=true}
checkSetter	set	boolean		\${*:=true}

!Num: numeric field				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
name		String	✓	
override	ovr	boolean		false
onOverflow	ovf	enum		\${*:=Trunc}
onUnderflow	unf	enum		\${*:=Pad}
access	acc	enum		\${*:=String}
wordWidth	wid	enum		\${*:=Int}
normalize	nrm	enum		\${*:=None}

!Fil: filler field				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
fill		char		\${*:=0}

!Dom: domain field				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
name		String	✓	
override	ovr	boolean		false
items		array	✓	

!Grp: group of fields				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
name		String	✓	
override	ovr	boolean		false
fields		array	✓	

!Occ: group of repeating fields				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
name		String	✓	
override	ovr	boolean		false
times	x	int	✓	
fields		array	✓	

!Cus: custom field				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
name		String	✓	
override	ovr	boolean		false
onOverflow	ovf	enum		\${*:=Trunc}
onUnderflow	unf	enum		\${*:=Pad}
padChar	pad	char		\${*:= ' '}
initChar	ini	char		\${*:= ' '}
check	chk	enum		\${*:=Ascii}
align		enum		\${*:=LFT}
normalize	nrm	enum		\${*:=None}
checkGetter	get	boolean		\${*:=true}
checkSetter	set	boolean		\${*:=true}
regex		String		null

!Nux: nullable numeric field				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
name		String	✓	
override	ovr	boolean		false
onOverflow	ovf	enum		\${*:=Trunc}
onUnderflow	unf	enum		\${*:=Pad}
access	acc	enum		\${*:=String}
wordWidth	wid	enum		\${*:=Int}
normalize	nrm	enum		\${*:=None}
initialize	ini	enum		\${*:=Space}

!Val: constant field				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
value	val	string	✓	

!Emb: embedded via interface				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
source	src	interface	✓	

!GRP: group of fields via interface				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
name		String	✓	
override	ovr	boolean		false
typedef	as	interface	✓	

!OCC: group of repeating fields via interface				
attribute	alt	type	O	default
offset	at	int	✓	self-calculated
length	len	int	✓	
name		String	✓	
override	ovr	boolean		false
times	x	int	✓	
typedef	as	interface	✓	