### NetRexx 3.08 GA

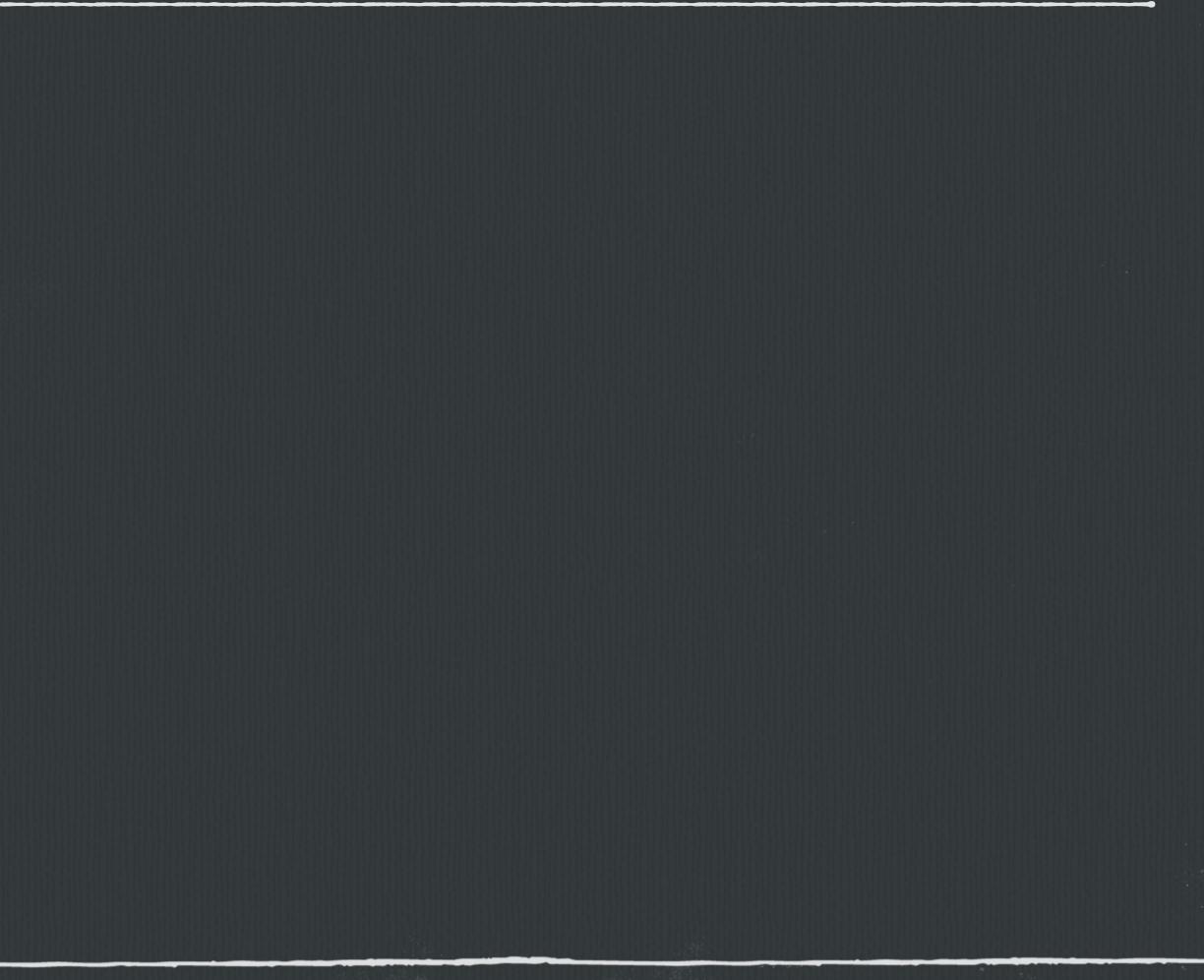
New function presentation René Jansen, 2019 International Rexx Language Symposium Hursley Park, UK





### □ Translator changes Pipelines improvements □ Workspace for NetRexx

### Agenda





### **Translator changes**

# Save .class files with the right names Move failed compiles to the bottom of the list (by Jason Martin) Suppress generics - related warnings



### **Translator Changes**

## □ It works again on Java 6, and therefore on OS/2 □ Added a NetRexxC.clgMain class for compile, load and go □ This competes with the interpreter for development go-around time Its main inspiration was the running of Pipelines in the shell

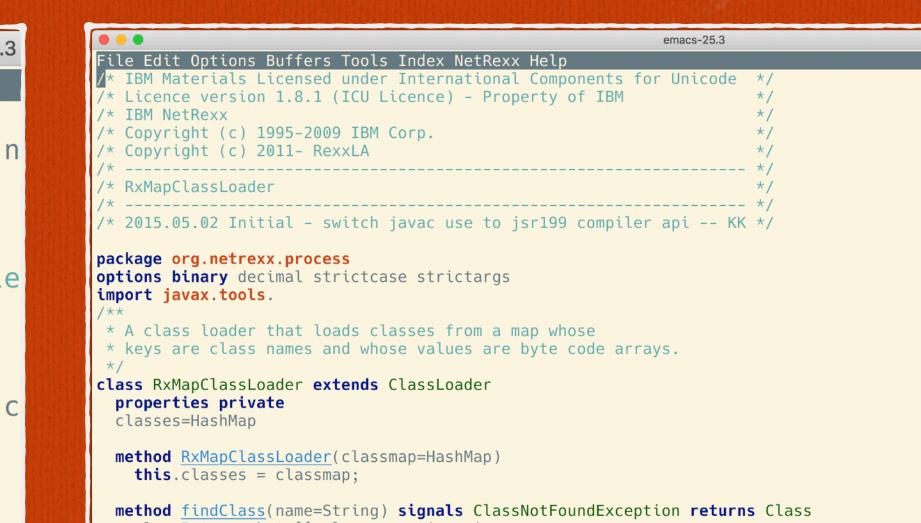


### File Edit Options Buffers Tools Index NetRexx Help

```
*/
method main(arg=Rexx, programstring=String, logfile=PrintWriter n
  return main(arg,[String programstring],logfile,classfiles)
/** method compile-load-and-go, no translator messages produced
   arg is the name of the class of which the main method is calle
method clgMain(arg=Rexx, programstring=String) constant
  classList = ArrayList()
  rc = main(arg' -nologo -verbose0',[String programstring],null,c
  mapLoader = RxMapClassLoader classList.get(0)
  do
    c = mapLoader.findClass(arg)
    paramTypes = Class[1]
    paramTypes[0] = String[].class
    methodName = String "main"
    m = c.getMethod(methodName, paramTypes)
    params = Object[1]
    params[0] = String[0]
    m.invoke(null, params)
  catch e=Exception
    say 'Reflection exception encountered:'
    say e.getMessage( )
  end
```

### return rc

```
/** public call-from-Java entry,
Arg1 is command argument string which has words which are flag
file specifications, or "...." for a file specification which
may have embedded blanks,
Arg2 is a array of Strings containing programs in memory (no m
Arg3 is PrintWriter file (forces -savelog if specified)
*/
method main(arg=Rexx, programarray=String[], logfile=PrintWriter
```



- classBytes = byte[] classes.get(name)
- if classBytes = null then signal ClassNotFoundException(name)
- cl = defineClass(name, classBytes, 0, classBytes.length)
- if cl = null then signal ClassNotFoundException(name)



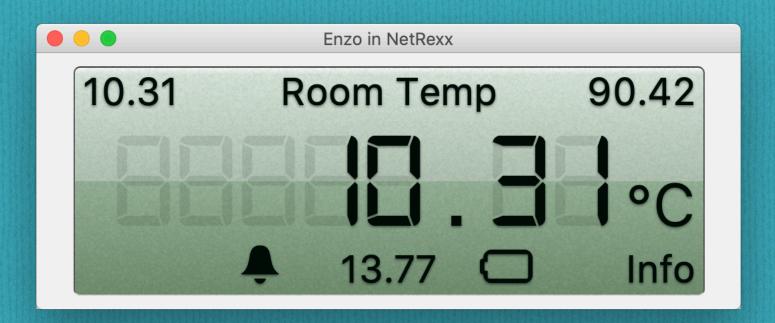


### □ The NetJoy language (Joy in NetRexx) □ JavaFX compilation examples

### Added examples







	NetRexx Tree View Sample
▼ Inbox	
Message 1	
Message 2	
Message 3	
Message 4	
Message 5	
Message 6	$\checkmark$



### Pipelines

# by the perfect symbiosis of Rexx and Pipelines

- sessions
- In short, it should look more like the z/VM version and be faster
- □ I think these objectives are met

This came about because I had a job last year working on z/VM and was struck

□ I remembered that we have Pipelines for NetRexx for some time, and showed this to VM people. The developments in this release are the result of these



### Pipelines

Pipelines are now directly executable from the shell, instead of starting a compilation and an execution of the resulting class file

□ This uses the new NetRexxC.clgMain method

□ Pipelines executed in the shell are now fast

□ They need to be quoted

□ Using the new (but in most parts 20 years old) Workspace for NetRexx, execution is fastest, and you don't need the quotes. It's like z/VM.



### Pipelines

### □ New stages:

- **zip, unzip, ziplist, query [version | level]**
- $\Box$  Added <, >, and >> z/VM idioms for file input, output, append.
- Hennick)
- □ Spec stage has a working C2X

□ Take stage improved with less bugs and new secundary streams (Jeff



### Workspace for NetRexx

□ By Martin Lafaix, 2000, with recent gracious permission to include

□ Added Pipeline execution facility

□ Added line editing on par with zsh (zsh is a unix shell) through JLine

This also solves a change request for a more 'RexxTry' like interface to NetRexx than the nrxscript facility could offer



### Workspace for NetRexx

□ It remembers variable and method definitions □ It uses 'frames' so one can work on more sessions at a time □ Able to preload Pipelines machinery for instant execution

