

# 9.0

## plugin.xml

9.0xml9.0com.fr.plugin8.0com.frplugin.xml<main-package>

|                                                |
|------------------------------------------------|
|                                                |
| <main-package>com.personal.main</main-package> |

9.0env-version

|                                 |
|---------------------------------|
|                                 |
| <env-version>-8.0</env-version> |

""8.0env-versionFineReport

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javaTimerExecutorSocketFineReportSwingServletContext

1TimerExecutorFineReport

|                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------|
| PluginContext                                                                                                                               |
| Timer timer = PluginContexts.currentContext().newTimer();<br>Executor executor = PluginContexts.currentContext().newSingleThreadExecutor(); |

2RecoverableTask

## RecoverableTask

```
PluginContexts.currentContext().executeRecoverable(new RecoverableTask() {

    @Override
    public void execute() {
        timer = new Timer();
    }

    @Override
    public void undo() {
        timer.cancel();
    }
});

PluginContexts.currentContext().executeRecoverable(new RecoverableTask() {

    @Override
    public void execute() {
        //Swing
        addSwingListener();
    }

    @Override
    public void undo() {
        //stop
        removeSwingListener();
    }
});
```

## ClassLoader

8.0FineReportClassLoader9.0ClassLoader

### ClassLoader

```
GeneralContext.class.getResourceAsStream(somePluginResourceName);
```

9.0FineReportClassLoader

### ClassLoader

```
this.getClass().getClassLoader().getResourceAsStream(resourceName);
```

FineReport