EMF Community, time to move on Eclipse4
Thanks to the Extended Editing Framework

Goulwen Le Fur
goulwen.lefur@obeo.fr
The Extended Editing Framework

- A presentation framework for EMF models
- Enables users to generate and use SWT forms in Eclipse/RCP applications to edit EMF models
- An Eclipse project since 2008
  - Current release v1.1.0
  - Coming soon v1.2.0
- Integrated in the Release Train Eclipse and in Amalgam
Properties Views and Wizards generation
Form Editors

Hibernate properties

Properties

- Generate tests

Hibernate naming:

Properties

- Dao hibernate package: hibernate
- Hibernate util package: org.obeonetwork.hkw.dao.hibernate
- Hibernate util name: HibernateUtil

Mapping properties

Properties

- Hibernate config dynamic update
- Hibernate generator class: uuid
A project for the EMF Users

- The EEF project aims at helping anyone of the EMF community to easily create rich UI to edit EMF models
  - The user is focused on the design of its UI
  - No need to manipulate the EMF API
    - A code generator hides all the EMF editing mechanisms

- Each release brings new features to simplify the GUI creation process
  - Basically the "one-click editor"
But new challenges await the EMF community...
With great challenges comes...

- Great brand new version ...

- EEF 2.0 is fully rewritten from scratch
  - New architecture
  - New features
  - Enlarged scope
    - E4 management
    - Live rendering
    - Dynamicity

- EEF 2.0 is well suited to face challenges like e4
Redesign

The basis
- No more generated code
- EEF Models are interpreted \@runtime for UI rendering
- Bindings and view logic defined in these models
- New architecture based on *OSGi Services*
- No extension point anymore
- All plugins are no longer *Singletons*
New architecture modularization according to the used technologies:

- SWT
- e3
- e4
- ...

![New architecture modularization diagram](image-url)
All these new features ... 

- And some others new cool stuffs
  - No need to configure tabbed properties anymore!
  - ...

- Let EEF users define sexy editing forms for EMF with only some clicks!
  - No source code anymore
    => Every EMF user is now a potential EEF user!
In action!
Cool but...

I could already do that with EEF 1.X!
You're right!

Let's take advantage of our brand new Architecture!
From one monolithic plugin ...
To the modularization...
Demo time!
You are not dreaming!

- Highly configurable
  - Workbench modeled - e4
  - Parts modeled - EEF 2.0

- Full e4 application
  - No use of the e3 compatibility layer

- Behavior easily redefinable
  - Thanks to OSGi dynamic services
But EEF 2.0 can do even more for you!

- Changing the platform is cool but...

- Why not changing... the toolkit?
From the modularization...

eef.runtime

eef.runtime

- eef.runtime.ui
  - eef.runtime.ui.swt
    - eef.runtime.ui.swt.e3
  - eef.runtime.ui.platform
    - eef.runtime.ui.swt.e4
To the infinity...
Demo time!
We reached the end of this tour

- EEF 2.0
  - A full-redesigned version

- Main new features
  - Runtime interpretation
  - OSGi services compliant
  - Modularized architecture

- EMF editing on:
  - SWT, JavaFX
  - Or whatever you want!
Thanks for attending!

- Soon available on git.eclipse.org
- www.eclipse.org/eef
- wiki.eclipse.org/EEF
- Thank you very much!
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# Form Editors

## Hibernate Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hibernate package</td>
<td><code>com.example</code></td>
</tr>
<tr>
<td>Hibernate style</td>
<td><code>org.hibernate.cfg.AnnotationConfig</code></td>
</tr>
<tr>
<td>Hibernate class</td>
<td><code>com.example.HibernateEntity</code></td>
</tr>
</tbody>
</table>

## Mapping Properties

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<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mapping class</td>
<td><code>com.example.HibernateMapping</code></td>
</tr>
<tr>
<td>Mapping style</td>
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</tr>
<tr>
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</tbody>
</table>

## Other Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Entity</td>
<td><code>com.example.Entity</code></td>
</tr>
<tr>
<td>Field</td>
<td><code>com.example.Field</code></td>
</tr>
<tr>
<td>Method</td>
<td><code>com.example.Method</code></td>
</tr>
<tr>
<td>Class</td>
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</tbody>
</table>
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![Image of colorful legos](Image)
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