How to use the E4 Model Editor for modular RCP applications
Who are We?

Olivier Prouvost
• OPCoach (www.opcoach.com), Eclipse trainer and consultant
• Committer on e4 tools and Eclipse Platform UI

Patrik Suzzi
• Asegno (www.asegno.com), Eclipse Consultant
• Committer on Eclipse Platform UI
Content of this talk

• How to create modular E4 Fragments
• How to use the Model Editor for this purpose

What do you need?

• Eclipse for RCP and RAP developers (Neon or Oxygen)
  • E4 Spies (marketplace)
Eclipse 4 Modularity
Eclipse 4 Model Modularity

- E4 Application
  - application.e4xmi
    (base application model)

- E4 Module
  - fragment.e4xmi
    (extends existing application)
Simple example of Contribution

• E4 RCP App
  • Sample content
  • Run

• E4 Plugin
  • Menu contribution using E4 Api
  • Add plugin to E4 app
  • Run
Extend your E4 Application Elements

• Contribute a Handler to the E4 Application
Demo

- Run a sample E4 RCP App
- Extend the App with a E4 Module
- use xpath:/ to refer to the App root element
- you can extend a specific element using
  - advanced xpath notation
  - extended element id
- delete the App launch configuration
- add the module in the E4App product
- run the new product
E4 Model Spy
E4 Model Spy module

• E4 Spies
  • Display information on the E4 runtime model, injection context, css, etc..
  • It can be extended for your specific purposes (developer point of view)
  • Add “e4*spy” to your run configuration
Demo

- Add E4 Spies to the E4 App
- Observe the additional menus
  - “E4 Handlers” ← module
  - “Window” ← Spies
- Explore the E4 App model
- Edit the E4 App model
Extend your E4 Application
What can we extend?

• Menus
• Parts (Descriptors, shared elements)
• Perspectives (snippet)
• Windows
• Toolbars, TrimBars, Status bar
• Handlers or Commands
• Addons
Extend your E4 Application menu

• Add a new contribution to the E4 App file Menu
Extend your E4 Application

• Extend the feature
• Add a Menu Item
Demo

- Add a fragment into the module
- Find the feature for the E4 App menu
- Add a Handled Menu Item to the parent E4 App
Can you do this with 3.x legacy Applications?
Extend 3.x Applications

• Run them on the compat layer
Extend E4 Applications
Demo

• Create a 3.x application with a view
  • Run it

• Add the E4 Module and the spies to the launch config (do not change the 3.x application dependencies)
  • Observe the menu contributed by the module
  • Observe the “Window” menu contributed by E4 Spies
Hackhathon
Eclipse Hackathon

• Event for developers to meet, share, learn, and improve the Eclipse technology.
• It can be an organised meeting, in a conference, or a meeting between friends.
• Everybody can join!
Eclipse Hackathon, Hamburg Dec 2016

merged: [Link](https://goo.gl/vXNpMj)
Questions?
Evaluate the Sessions

Sign in and vote at eclipsecon.org

-1  0  +1