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**Innsbruck, Austria**

# e4 and Eclipse 4.0 SDK

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**DemoCamp Vienna**  
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# e4 – About Me

- **Founder and Owner of BestSolution.at**
- **Eclipse Committer**
  - e4
  - Platform UI
  - EMF
- **Projectlead**
  - Nebula
  - UFaceKit

# e4 – Objectives

- **Easier to assemble**
  - New Programing Model
  - New Modeled Application
- **Easier to customize**
  - Declarative Styling
  - Rendering concept

# e4 – Programming Model

- **Based Upon POJOs and DI**
  - JSR 250, JSR 330
  - Minimal to 0-Dependency on Framework
  - No reach out to Services, ...
  - Easy access to Preferences, OSGi-Services, ...

# e4 – Programming Model

```
public class MyView {  
  
    @Inject  
    private IMyTranslation context;  
  
    @Preference (value="mypref")  
    private String pref;  
  
    @Inject  
    public MyView(Composite parent) {  
    }  
  
    @Inject  
    public void setPerson(@Named("selection") @Optional Person person) {  
    }  
  
    @PostConstruct  
    public void createUI() {  
    }  
}
```

# e4 – Application Model

- **Modeled using EMF**
  - Developer has full access to the complete workbench
  - Clean separation between application state and rendering
  - One central position to look up stuff

# e4 – Declarative Styleing

- **Themes defined in CSS-Syntax**
  - Support for Gradients, ...
  - Id, Classes, Element Definitions

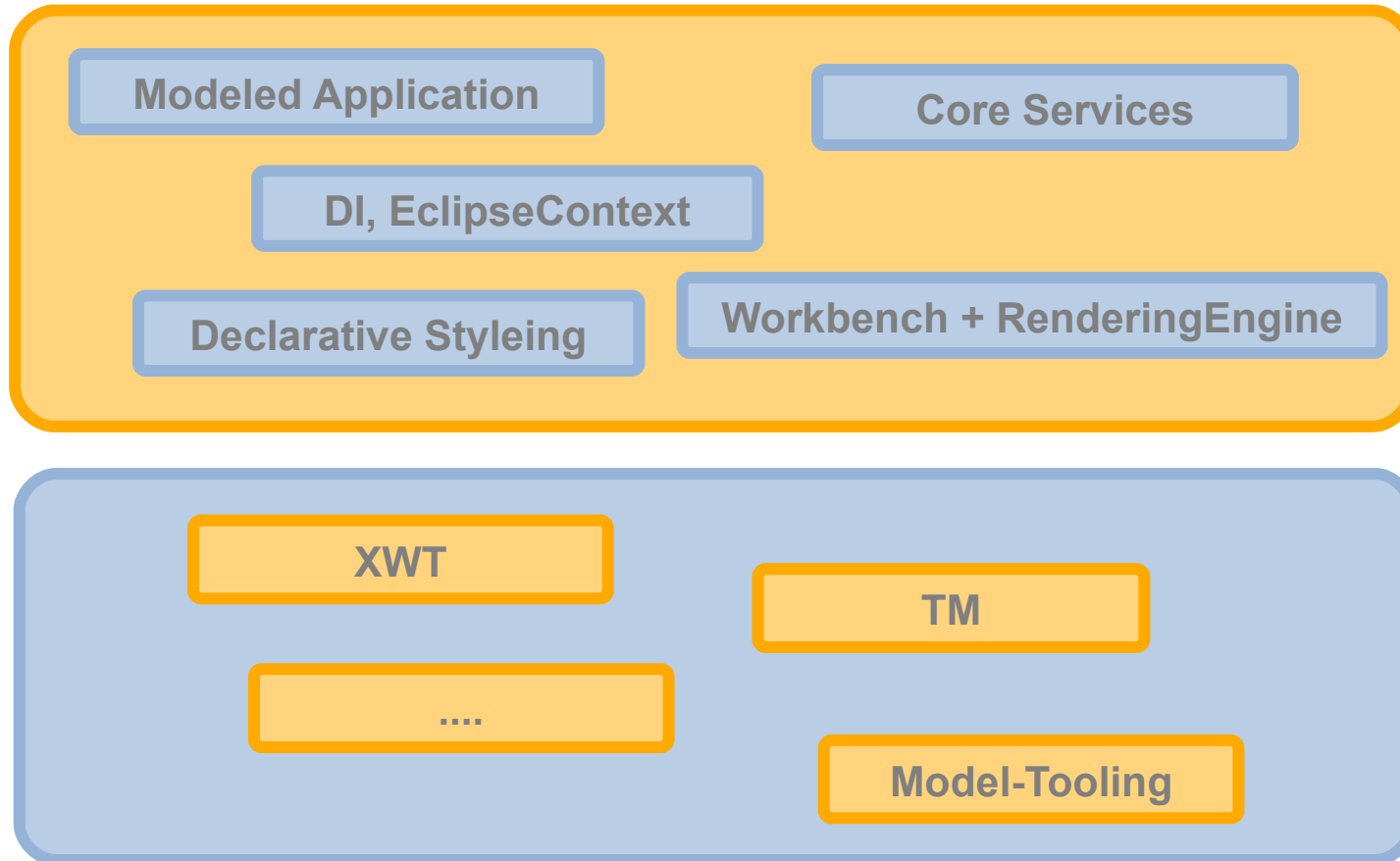
# e4 – Declarative Styleing

```
.MTrimmedWindow {  
    background-color: #E8E8E8;  
    margin-top: 12px;  
    margin-bottom: 2px;  
    margin-left: 10px;  
    margin-right: 10px;  
}  
  
.MPartStack {  
    tab-renderer: url('platform:/plugin/org.eclipse.e4.ui.workbench.renderers.swt/  
        org.eclipse.e4.ui.workbench.renderers.swt.CTabRendering');  
    unselected-tabs-color: #FFFFFF #FFFFFF #FFFFFF 100% 100%;  
    outer-keyline-color: #FFFFFF;  
    inner-keyline-color: #FFFFFF;  
    font-size: 12;  
}  
  
.MTrimBar {  
    background-color: #CFCFCF #A8A8A8 100%;  
}  
  
.MPartStack.active {  
    unselected-tabs-color: #F6F6F6 #D3D3D3 #D1D1D1  
        #D1D1D1 #D6D6D6 #D6D6D6 #FFFFFF 20% 45% 60% 70% 100% 100%;  
    outer-keyline-color: #B8C7E5;  
    inner-keyline-color: #FFFFFF;  
}
```



# e4 – Components

## E4-Core



## E4-Addons

## e4 – Round up

- **Release of 4.0 SDK in July**
  - Compat-Layer
  - JDT & PDE run unmodified
- **Release of e4 SDK**
  - ApplicationModel-Tooling
  - XWT
- **Resources**
  - <http://tomsondev.bestsolution.at/>
  - <http://www.eclipse.org/e4/>

**THE END**