**Vorteile e4**

\* the new programming model  
\* better control over L&F going even so far to replace widgets and even  
the widget technology  
\* the workbench model which gives you complete control of your application

.... because it is going to be to main area of innovation in the years to  
come.

<http://tomsondev.bestsolution.at/2012/04/13/why-is-eclipse-4-better-than-eclipse-3/>

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Easier to add features / fix bugs

**Advantage 1:** Committers can fix bugs much faster

**Advantage 2:** Developers can add features / fix problems themselves without waiting for up-stream committers to implement it for them  
**Advantage 3:** We the platform committers don’t own all the worlds problems because we have to implement it in our code and have to deal with the maintenance

lipse 3.8 will also ship as part of the Juno release, but **currently there are no 3.x releases planned after that.**.

**Für Migration:**

the compat layer should allow you to run your applications in 4.x  
and togetehr with the forward compat layer you can refactor it step by step.  
  
I plan to write a tutorial soon about and gave a talk about it at  
Eclipse Con 2011 [1]. I'll hopefully be able to upload the sources to my  
git repo soon.

<http://eclipsesource.com/blogs/2012/06/18/migrating-from-eclipse-3-x-to-eclipse-4-e4/>

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| **5.3 OSGi Services und Model Services** | | |
| EModelService | Find elements in the model, create or clone snippets and insert new elements model structures |
| ESelectionService | Retrieve and set the current workbench selection. |
| ECommandService | Access, create, change and trigger commands. |
| EHandlerService | Access, change and trigger handlers. |
| EPartService | Provides API to access parts, e.g. find parts by their ID. It allows you to switch Perspectives and to hide and show Parts. |
| IEventBroker | Provides functionality to send event data and to register for certain events. |
| StatusReporter | Allows you uto report Status objects, concise interface compared to standard IStatus reporting. |
| EContextService | Activate and deactivate keybindings defined as BindingContext in the application model. |
| IThemeEngine | Define themes and switch the styling at runtime. |