

# GWT – Google Web Toolkit

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# Agenda

- about me
- Problems with (Ajax)-Webapplications
- What is GWT? + Demo 1
- Widgets (Panels, CSS) + Demo 2
- RPC + Demo 3
- Tooling
- further Demos



## about me

- Study: Informations- and Communicationssysteme
- 7 Years external employee (Swun, IBM)
- 1 Year Webdeveloper
- 2 Years Technical Application Manager (s-it Solutions)
- One of the authors of the book „GWT Ajax Anwendungen einfach und schnell entwickeln“

# Problems with (Ajax)-Webapplications



- Browser compatibility
- different languages
- Use of Ajax
- complex GUIs
- Debugging of GUI Problems



# What is GWT?

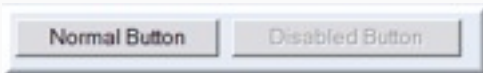
- Ajax Webframework (RPC)
- Implemented Language: Java
- Hosted Mode/Web Mode
- Eventhandling
- Widget Library
- Browser independent
- Localization
- Historymanagemant

# Demo 1

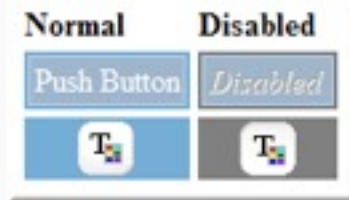
- How a GWT Application looks like?
  - Java
  - Hosted Mode/Web Mode
  - Event Handling



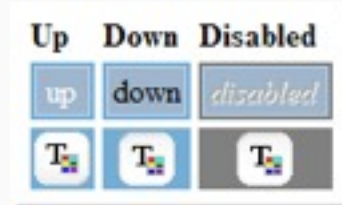
# Widgets



PushButton



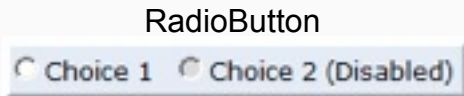
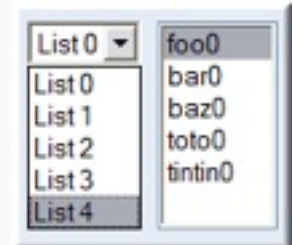
ToggleButton



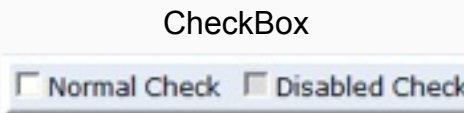
Hyperlink



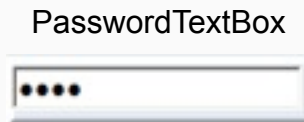
ListBox



RadioButton



CheckBox



PasswordTextBox



TextArea

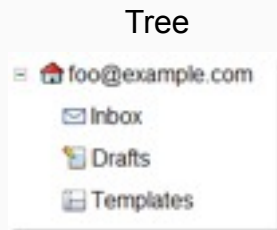


TextBox

Table

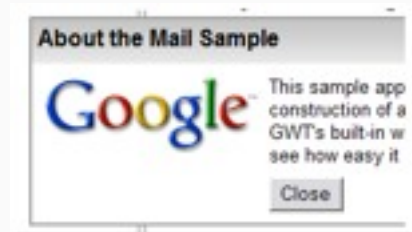
sender	email
markboland05	mark@example.com
Hollie Voss	hollie@example.com
boticario	boticario@example.com
Emerson Milton	emerson@example.com
Healy Colette	healy@example.com
Brigitte Cobb	brigitte@example.com
Elba Lockhart	elba@example.com

MenuBar

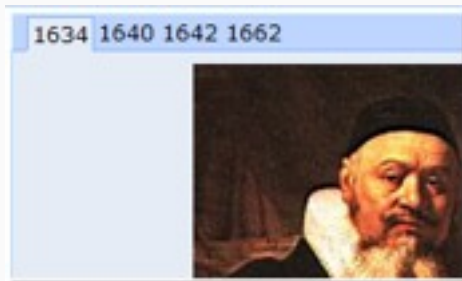


Tree

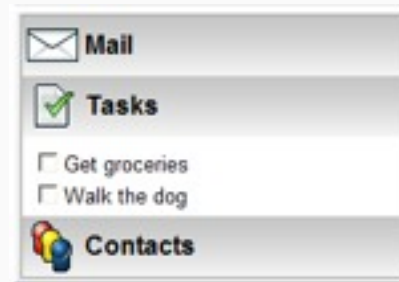
DialogBox



TabBar



StackPanel

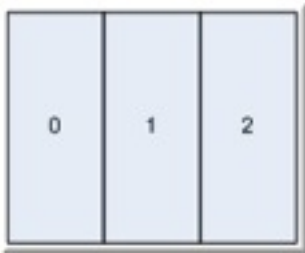


PopupPanel

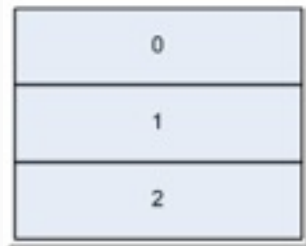


# Panels (Widgets)

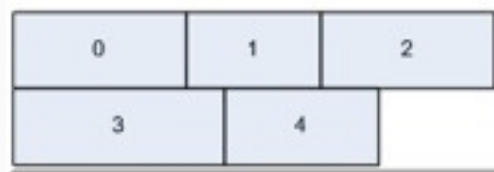
HorizontalPanel



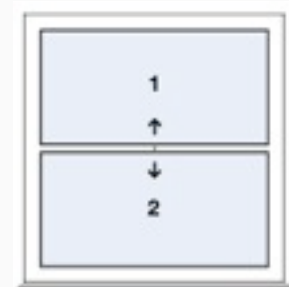
VertikalPanel



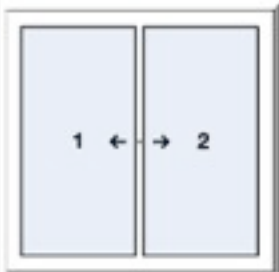
FlowPanel



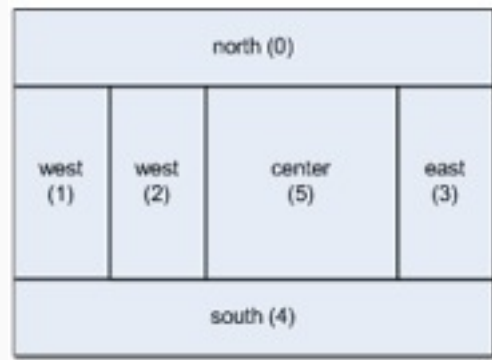
VerticalSplitPanel



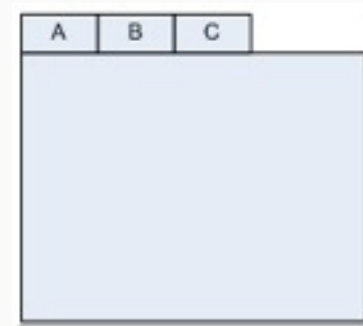
HorizontalSplitPanel



DockPanel



TabPanel



RichTextArea



DisclosurePanel



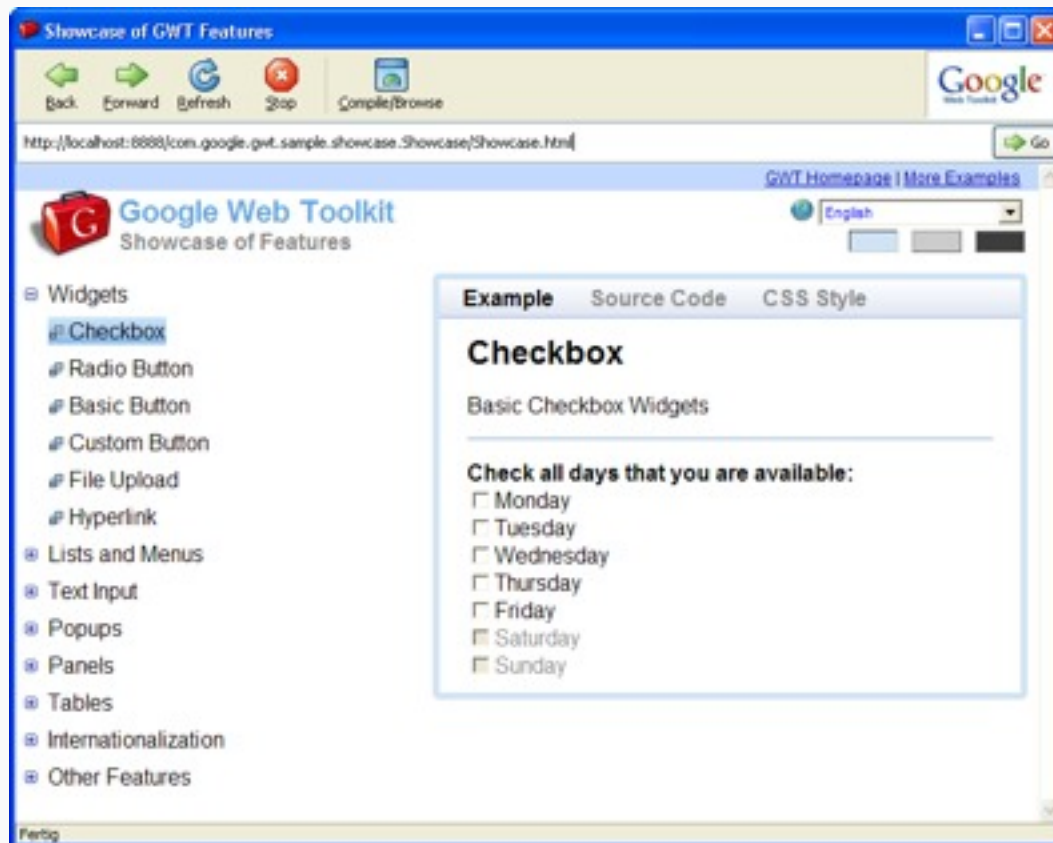
SuggestBox



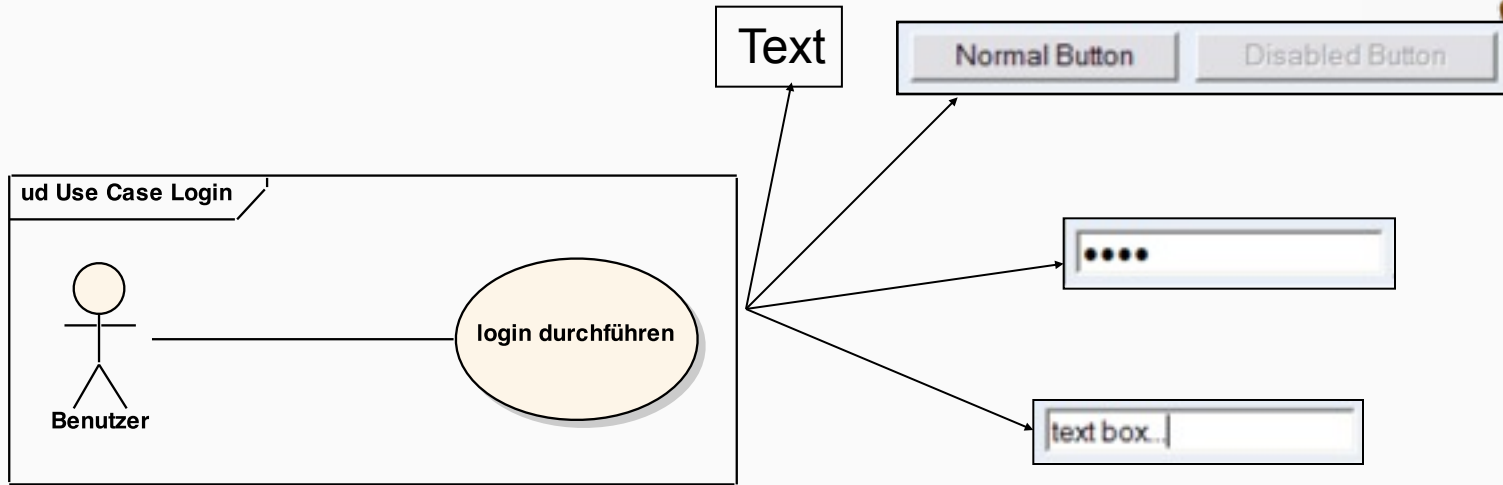


# Demo 2

## Widget Examples and CSS



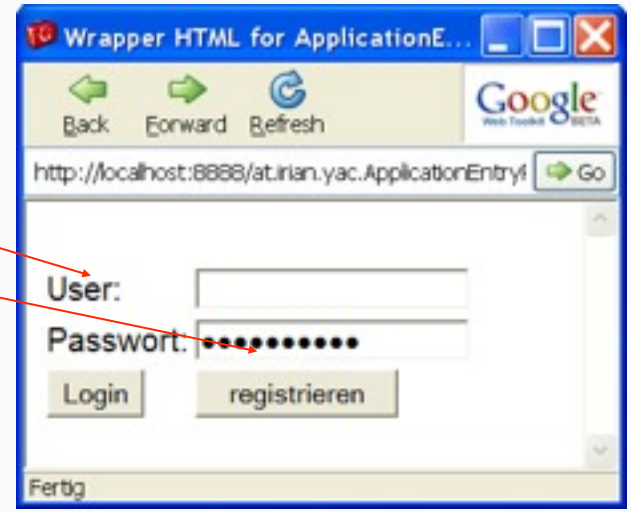
# Widgets used in the Login example



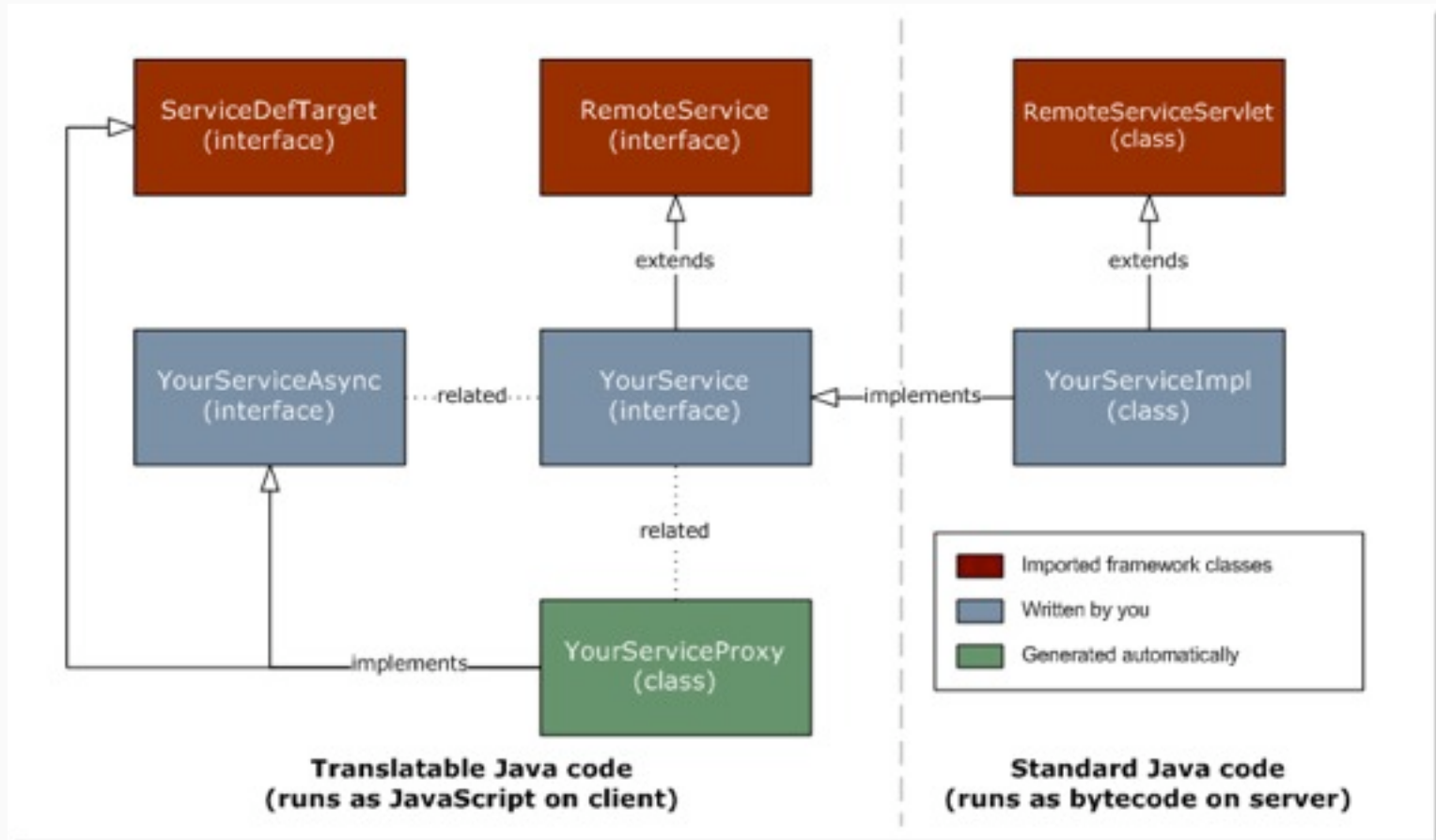
```

private Label txtUser = new Label("User:");
private TextBoxBase inpPwd = new PasswordTextBox();
form.add(this.createAndFormatContentPanel());
this.initWidget(form);
final Grid grid = new Grid(3,2);
grid.setWidget(0, 0, this.txtUser);
grid.setWidget(1, 1, this.inpPwd);

```



# RPC – Remote Procedure Call



Source: GWT Documentation

# Demo 3

## How RPC does work?

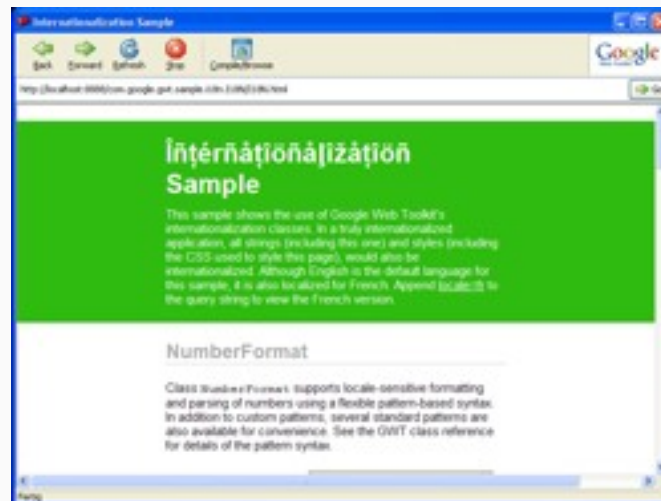
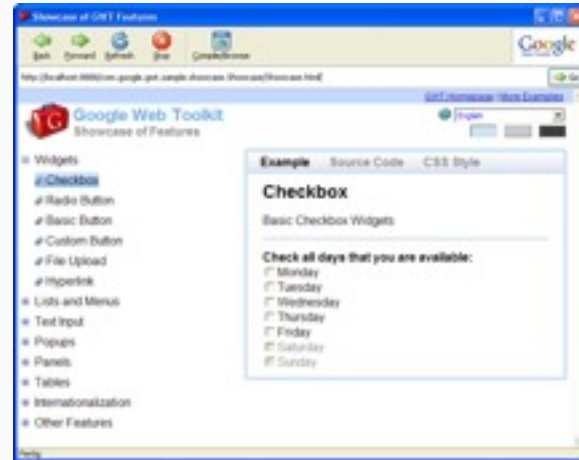
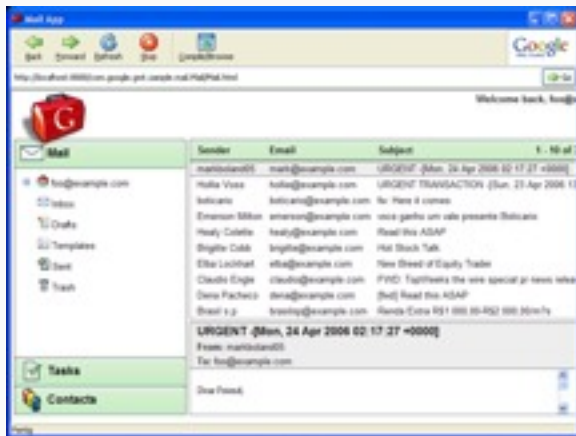




# Tooling

- projectCreator.cmd
- applicationCreator.cmd
- i18nCreator.cmd
- <Interfacename>-i18n.cmd
- junitCreator.cmd
- Eclipse Plugin Cypal Studio for GWT (<http://www.cypal.in/studio>)
- GWT (<http://code.google.com/intl/de-DE/webtoolkit>)

# further Demos





# Questions?