



Eclipse Scout

The new Java Web-framework

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Agenda

- What's **Scout**
- **16 Years** of technology
- **Java**: Building with Maven
- **HTML5**: Themes and Styling

Eclipse Scout

Scout Framework

- Built for **Business Applications**
- **Multi Device** support
- Based on **Java** and **HTML5, CSS3, JS**

Framework Goals

- **Long term** strategy (enterprise apps live > 10 years)
- Boosts **productivity** (producing software in Switzerland ...)
- **Easy** to learn (new team members productive in 1-2 weeks)

Back to the Future ...

Let's go back to ...

... 1999

Google!
B E T A

Search the web using Google!

Google Search

I'm feeling lucky

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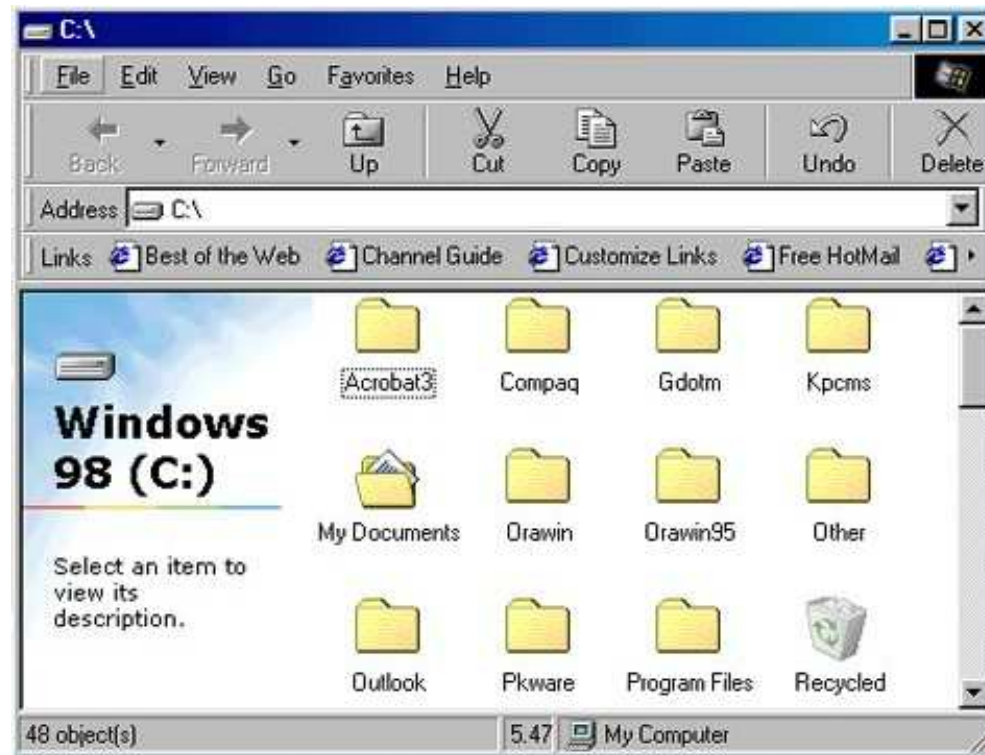
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... 1999



... 1999



... 2002

The screenshot shows the 'ors X' application window. At the top, there is a menu bar with 'Datei' and 'Extras ?'. Below it is a toolbar with icons for 'Standardsicht', 'Eigene Sicht', 'Mgmt Reports', 'Marketing', 'Intern', and 'Stammdaten'. The main area is divided into a sidebar on the left and a main content area on the right. The sidebar contains a tree view with 'Firmen' expanded, showing 'ARXES' and its sub-items: 'Projekte', 'Ansprechpa...', 'Mandate', 'Beziehunge', 'Konzernstru', 'Marketing', 'Problemmek', 'Installierte B', 'Zahlungen', 'Kontakte', and 'Pendenzen'. The main content area displays a table with the following data:

Kennwort	Termin	Erledigt am	Verantwortlich	Projekt	Firma	Kontaktperson	Telefon
unterlagen bsi und projektsteuerung in ors2i	20.07.2004		Schmidt, Daniel		ARXES	Arndt, Detlef	+49 30 4

Below the table, there is a large graphic featuring the Java logo (a red swirl above a blue cup) and the text '<xml />' in red and blue. Below this graphic is a 'Details' panel with the following fields:

- Kennwort: [Text input]
- Termin von: [Date picker] bis: [Date picker]
- Erledigt am von: [Date picker] bis: [Date picker]
- Verantwortlich: [Text input]
- Registriert von: [Text input]
- Pendenztyp: [Text input]
- Nur hohe Priorität
- Offene
- Erledigte

At the bottom of the window, there is a status bar showing '1 Datensatz' and a row of buttons: 'Details', 'Firmen und Per...', 'Projekt', 'Sonderabfrage', 'Zurücksetzen', and 'Suche'.

... 2005

The screenshot displays a software application window titled "ORFIS BSI AG". The main window contains a tree view on the left with categories like "Firmen", "Projekte", and "Personen". The central area shows a table of company data:

Firmenkurzname	Firmenname	Firmen-Nr.	Telefon	PLZ	Ort	Land	Region	Branche
BA BSI	Signalling	257	0046 8 681 5501	12096	Stockholm	Schweden	Europa	Industrie
BSI BADEN	BSI Business Systems Integr...	1	056 484 19 20	5405	Dätwil AG	Schweiz	Europa	Informatik
BSI USA	BSI Business Systems Integr...	583	+1 908 252-0300	NJ 089...	Somerville	U.S.A.	Arnetika	Informatik
BSI ZUG	BSI Business Systems Integr...	2	056 484 19 20	6340	Baar	Schweiz	Europa	Informatik

Overlaid on the screenshot are the Eclipse IDE logo and the text "eclipse 3.0 THE ECLIPSE PROJECT". Below the Eclipse logo is the Java logo and the XML tag symbols "<xml />".

A "Firmen suchen" dialog box is open, showing search criteria for "Firma". The "Firmenkurzname" field contains "bsi". Other fields include "Firmenname", "Firmen-Nr.", "Hauptbetrou...", "Region", and "Rating". There are checkboxes for "aktive Firmen" and "inaktive Firmen".

At the bottom of the application window, it says "4 Datensätze / 1 Selektiert".

... 2007

The screenshot displays the BSI CRM application window. The title bar reads "BSI CRM". The menu bar includes "Datei", "Extras", "Prozesse", and "Favoriten". The main toolbar contains icons for "Standardsicht", "Eigene Sicht", "Reports", "CPM", "Marketing", "Contact Center", "Human Resources", "Administration", and "Schnittstellen".

The interface is divided into several sections:

- Contact Center:** A sidebar on the left with a tree view containing "Geschäftsvorfälle", "Alle", "Eigene", "<Nicht identifiziert>", "Hug, Daniel (i-SOLUTIONS)", "Eskalierter", "Know-How", "Virtuelle Teams", "Prozessverwaltung", and "Statistiken".
- Prozess wählen - 11.04.09 11:25:** The main content area. It features a "Detail" section with input fields for "Nachname", "Vorname", "PLZ", and "Ort". Below this is a large graphic with the Java logo on the left and the Eclipse Galileo logo on the right. The Eclipse Galileo logo includes the text "eclipse GALILEO" and a copyright notice: "(c) Copyright Eclipse contributors and others, 2000, 2009. All rights reserved. Java and all Java related trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. Eclipse is a trademark of the Eclipse Foundation, Inc."
- Process Flow:** A vertical list of five steps on the right side: "1 Person wählen" (highlighted in orange), "2 Kundenübersicht", "3 Kundenidentifikation", "4 Prozess wählen", and "5 Prozessschritte unbekannt".
- Bottom Bar:** Contains a "Telefon" icon, an "Abbrechen" button, a "Weiter" button, and an "Abschliessen" button.

Eclipse Scout 2011

The screenshot displays the BSI CRM application window. The interface includes a navigation pane on the left with a tree view of entities like Companies, Persons, and Tickets. The main area shows a table of contact persons with columns for Name, Given name, Language, Main account manager, Phone, Mobile phone, and E-mail. Below the table, there are logos for Scout (a stylized 'S' in orange and blue), Java (the red Java logo with a flame), and Eclipse (the Eclipse logo with a blue sphere). The status bar at the bottom indicates '85 objects, 1 selected'.

Name	Given name	Language	Main account manager	Phone	Mobile phone	E-mail
Fleseriu	Gabriel	Deutsch	Pedersen, Morten	+41 (56) 484 1...	+41 (79) 321 ...	gabriel.fleseriu@bsiag.com
Frei	Pascale	Deutsch	Isler, Claudia	+41 (56) 484 1...	+41 (79) 474 ...	pascale.frei@bsiag.com
Funk	Uwe	Deutsch	Pedersen, Morten	+41 (56) 484 1...	+41 (78) 920 ...	uwe.funk@bsiag.com
Geismann	Matthias	Deutsch	Bernold, Martin	+41 (56) 484 1...		matthias.geismann@bsia...
						lavid.gerhard@bsiag.com
						:audio.guglielmo@bsiag.c...
						anders.hansen@bsiag.com
						volger.heymanns@bsiag.c...
						justav.hilpert@bsiag.com
						oger.hitz@bsiag.com
						nuriel.hochuli@bsiag.com
						andreas.hoegger@bsiag.c...
						nark.huber@bsiag.ch
						eno.hug@bsiag.com
						sion.huws@bsiag.com
						:laudia.isler@bsiag.com
						evin.kim@bsiag.com
						runo.koeferli@bsiag.com
						sigrid.kristiansen@bsiag.c...
Kristiansen	Ulrik	Deutsch		+11 (56) 484 1...	+41 (79) 433 ...	ulrik.kristiansen@bsiag.com
Leicht	Stephan	Deutsch	Seitel, Peter	+41 (56) 484 1...		stephan.leicht@bsiag.com
Lenz	Alberto	Deutsch	Rusche, Christian		+41 (79) 400 ...	alberto@lenz.net
Meer	Astrid	Deutsch	Schöb, Benjamin	+41 (56) 484 1...		astrid.meer@bsiag.com
Merkli	Stephan	Deutsch	Moser, Samuel	+41 (56) 484 1...	+41 (79) 388 ...	stephan.merkli@bsiag.com
Mittmann	Johannes Max	Deutsch	Nielsen, Jan Klint	+41 (56) 484 1...		max.mittmann@bsiag.com
Mortasawi	Mazda	Deutsch	Moser, Samuel	+41 (56) 484 1...	+41 (76) 435 ...	mazda.mortasawi@bsiag.c...
Moser	Adrian	Deutsch	Reichlin, Benedikt	+41 (41) 766 8...		adrian.moser@bsiag.com
Moser	Samuel	Deutsch	Duscha, Stefan	+41 (56) 484 1...		samuel.moser@bsiag.com

Eclipse Scout 2012

The screenshot displays the Eclipse Scout 2012 web application interface. The browser address bar shows the URL: [https://services.bsiag.com/bsicrm/web#com.bsiag.crm.client.core.desktop.PersonalOutline-Zimmermann-Matthias-\(BSI-Z%C3%9CRICH\)-Persons-Leicht-Vogt-Stephan-\(BSI-BADEN\)](https://services.bsiag.com/bsicrm/web#com.bsiag.crm.client.core.desktop.PersonalOutline-Zimmermann-Matthias-(BSI-Z%C3%9CRICH)-Persons-Leicht-Vogt-Stephan-(BSI-BADEN)). The main content area features a 'Person' profile for Stephan Leicht Vogt, including fields for Name, First name, Company (BSI BADEN), Main representative (Seitel, Peter (BSI BADEN)), and an 'Active' checkbox. A profile picture of Stephan Leicht Vogt is displayed. Below the profile, there are logos for 'S' (a stylized blue and orange 'S'), 'Java' (the Java logo), 'RAP Rich Ajax Platform' (a blue box with white text), and 'eclipse' (the Eclipse logo). The interface also includes a left-hand navigation tree with categories like 'Zimmermann, Matthias (BSI ZU)', 'Companies', 'Persons', 'Network', 'Projects', 'Marketing', 'Tickets', 'Cases', 'Communication', and 'Tasks'. At the bottom, there are options to 'Open as Graphic' or 'Open as PDF', and a footer with the text 'Organic Hierarchical Orthogonal 1 2 3 5 10'.

Eclipse Scout 2015/16

The screenshot displays the BSI CRM software interface. The browser address bar shows the URL <https://services.bsi-software.com/bsicrm/>. The main header includes a search bar, a star icon, and a refresh icon. The left sidebar contains a navigation menu with categories like 'Firmen', 'Personen', 'Aufträge', 'Tickets', 'Geschäftsvorfälle', 'Kommunikationen', and 'Aufgaben'. The main content area shows the profile for 'Firma ECLIPSE FOUNDATION' and 'Person Stephan Leicht Vogt (BSI BA...)'. The profile includes fields for 'Kurzname', 'Name 1', 'Name 2', 'Nummer', 'Sprache', and 'Rating'. Below these fields are logos for 'S', 'Java', 'HTML5', 'CSS3', and 'JS'. The 'Segmenti' section has checkboxes for 'Bee', 'Firm', 'Key', and 'Kon'. The bottom section contains contact information: 'Fax +1 (613) 224-5172', 'E-Mail info@eclipse.org', 'Website www.eclipse.org', and 'Anschrift Eclipse Foundation Inc., 102 Centrepointe Drive, Ottawa, Ontario, K2G 6B1'. The address field is split into 'Adresszusatz 1', 'Adresszusatz 2', '102 Centrepointe Drive', 'Postfachbezeichnung', 'Postfachnummer', 'CA', 'K2G 6B1', and 'Ottawa'.

BSI CRM - mzi
https://services.bsi-software.com/bsicrm/

Firma ECLIPSE FOUNDATION Person Stephan Leicht Vogt (BSI BA...)

Speichern Abbrechen Prüfung auf Doublette vornehmen

Kurzname * ECLIPSE FOUNDATION
Name 1 * Eclipse Foundation Inc.
Name 2
Nummer
Sprache
Rating

Segmenti
 Bee
 Firm
 Key
 Kon

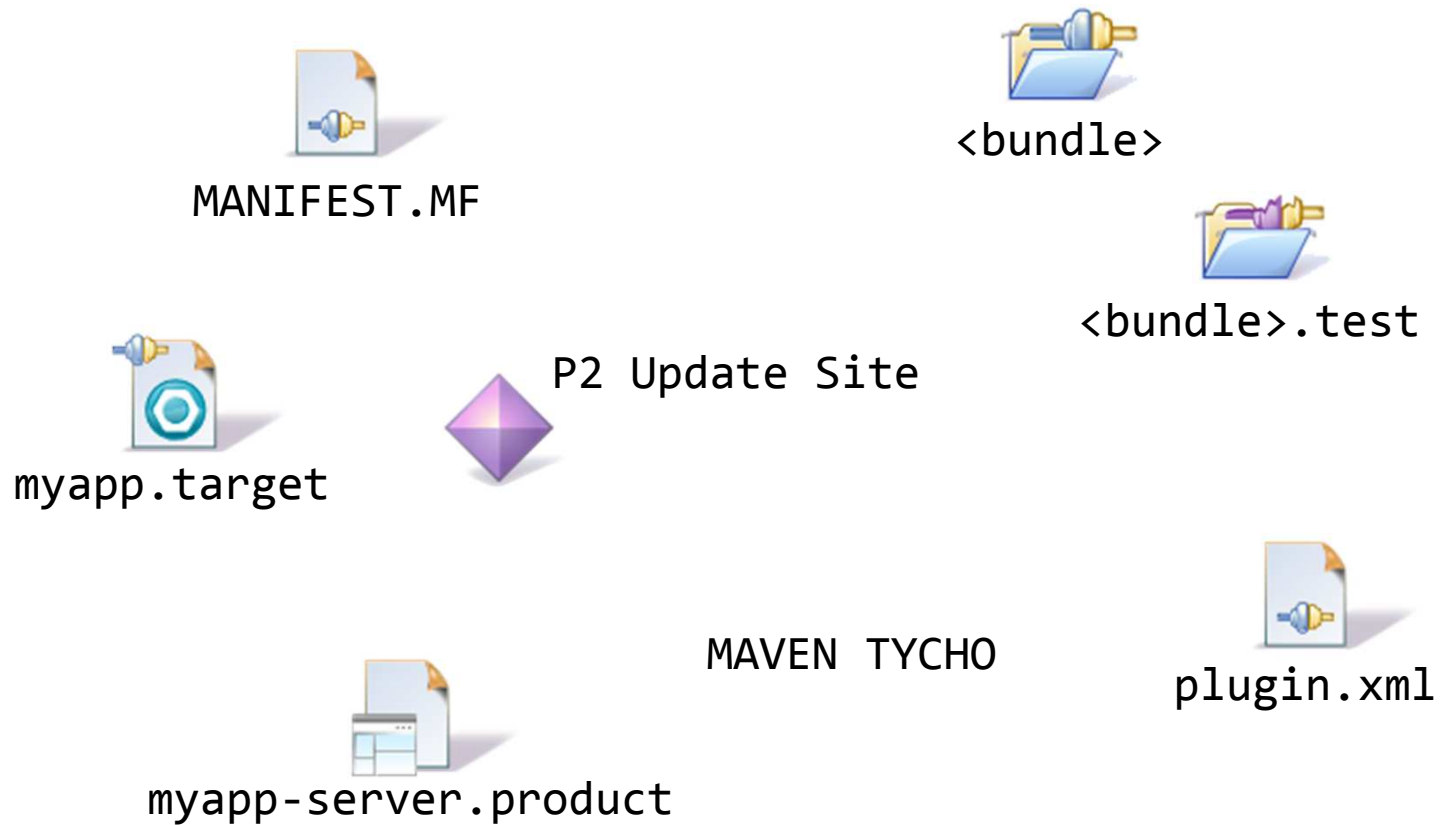
Adressen Bemerkungen Informationen Marketing Finanzielle Daten Dokumente Änderungen

Fax +1 (613) 224-5172
Bevorzugt
E-Mail info@eclipse.org
Bevorzugt
Website www.eclipse.org
Bevorzugt
Anschrift Eclipse Foundation Inc.
Bevorzugt 102 Centrepointe Drive
Ottawa, Ontario, K2G 6B1






Adresszusatz 1
Adresszusatz 2
102 Centrepointe Drive
Postfachbezeichnung Postfachnummer
* CA K2G 6B1 Ottawa



Eclipse Scout Neon
Java: Building with Maven



Once upon a time...



Standard Maven Project

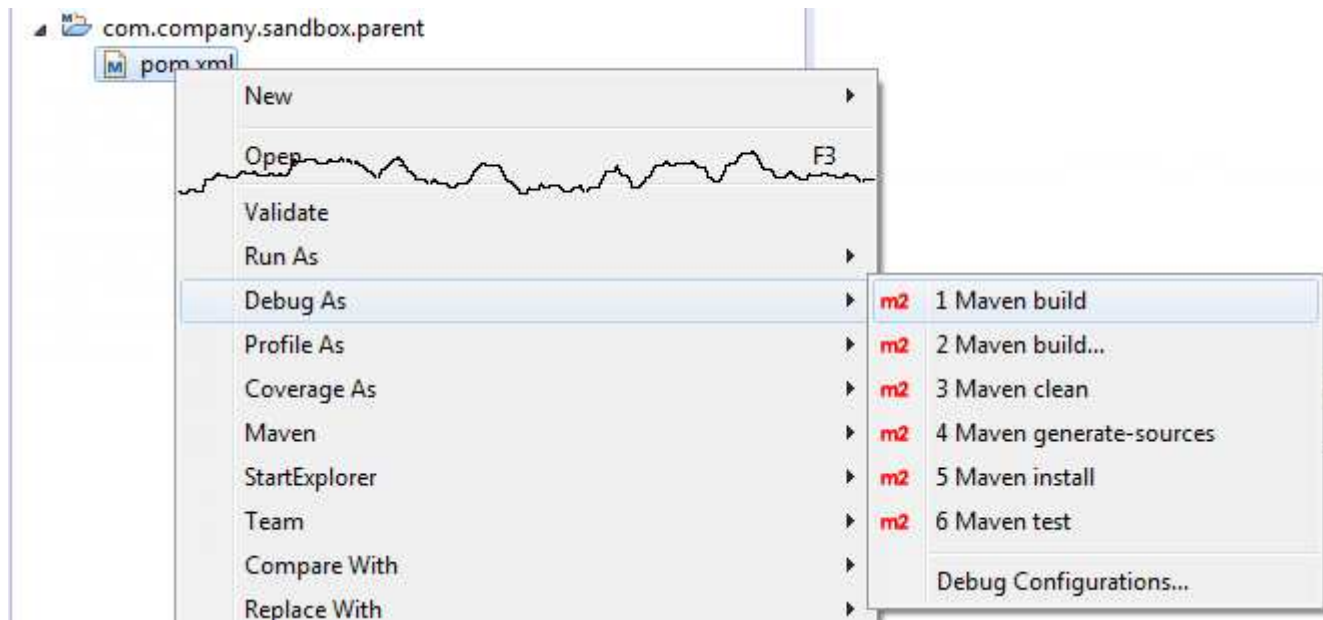
-  → {project name}
-  → {project name}.server
-  → {project name}.shared
-  → {project name}.client
-  → {project name}.ui.html

-  → {project name}.server.app.dev
-  → {project name}.ui.html.app.dev

-  → {project name}.server.app.war
-  → {project name}.ui.html.app.war

Maven Integration for Eclipse m2e

→ Works as expected



Maven CLI

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\jbr\code\ugm2015\com.company.sandbox.parent>mvn clean verify
[INFO] Scanning for projects...
[INFO] -----
[INFO] Reactor Build Order:
[INFO]
[INFO] com.company.sandbox.parent
[INFO] com.company.sandbox.shared
[INFO] com.company.sandbox.server
[INFO] com.company.sandbox.client
[INFO] com.company.sandbox.server.app.war
[INFO] com.company.sandbox.ui.html
[INFO] com.company.sandbox.ui.html.app.war
[INFO] -----
[INFO] Building com.company.sandbox.parent 1.0.0-SNAPSHOT
[INFO] -----
[INFO] --- maven-clean-plugin:2.5:clean (default-clean) @ com.company.sandbox.parent ---
[INFO]
[INFO] --- build-helper-maven-plugin:1.9.1:add-source (add-source) @ com.company.sandbox.paren
[INFO] Source directory: C:\Users\jbr\code\ugm2015\com.company.sandbox.parent\src\main\webapp
[INFO] Source directory: C:\Users\jbr\code\ugm2015\com.company.sandbox.parent\src\generated\ja
[INFO]
[INFO] >>> maven-source-plugin:2.4:jar (attach-sources) > generate-sources @ com.company.sandb
[INFO]
[INFO] --- build-helper-maven-plugin:1.9.1:add-source (add-source) @ com.company.sandbox.paren
[INFO] Source directory: C:\Users\jbr\code\ugm2015\com.company.sandbox.parent\src\main\webapp
[INFO] Source directory: C:\Users\jbr\code\ugm2015\com.company.sandbox.parent\src\generated\ja
```

Eclipse Scout Neon
HTML5: Styling and Themes

Themes and Styling with Scout

Technology

→ **CSS3 + Less**

CSS Organisation

- Global Less files (colors, fonts, sizes, ...)
- Component specific Less files (Form, Field, Button...)
- **Optional**: Project specific Less files
- **Theme**: Named set of Less files

From Less to final CSS

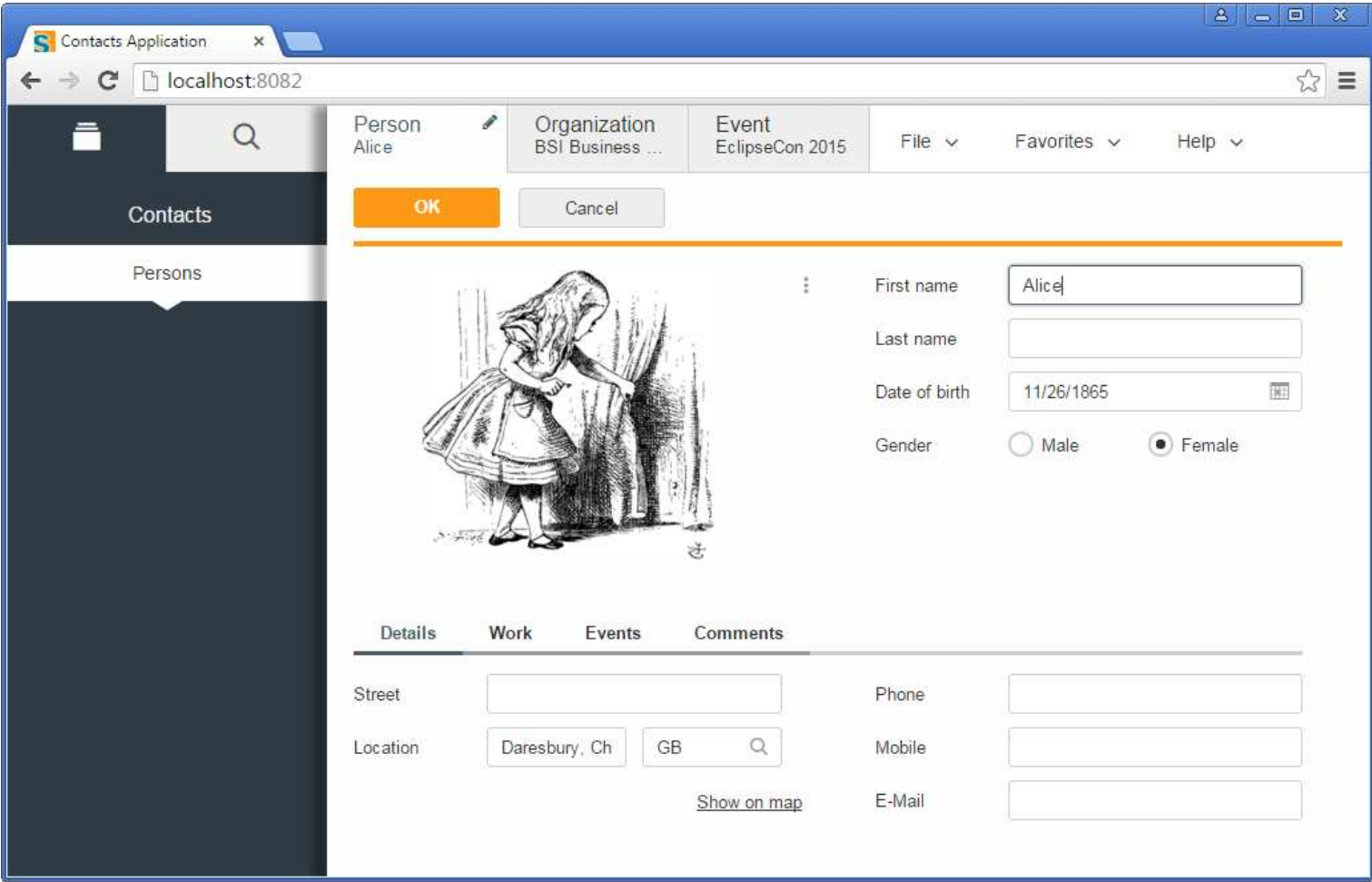
1. Assemble set of all applicable Less files
2. Process Less files and create single big CSS file
3. Minify CSS and sent it to browser

From Less to final CSS

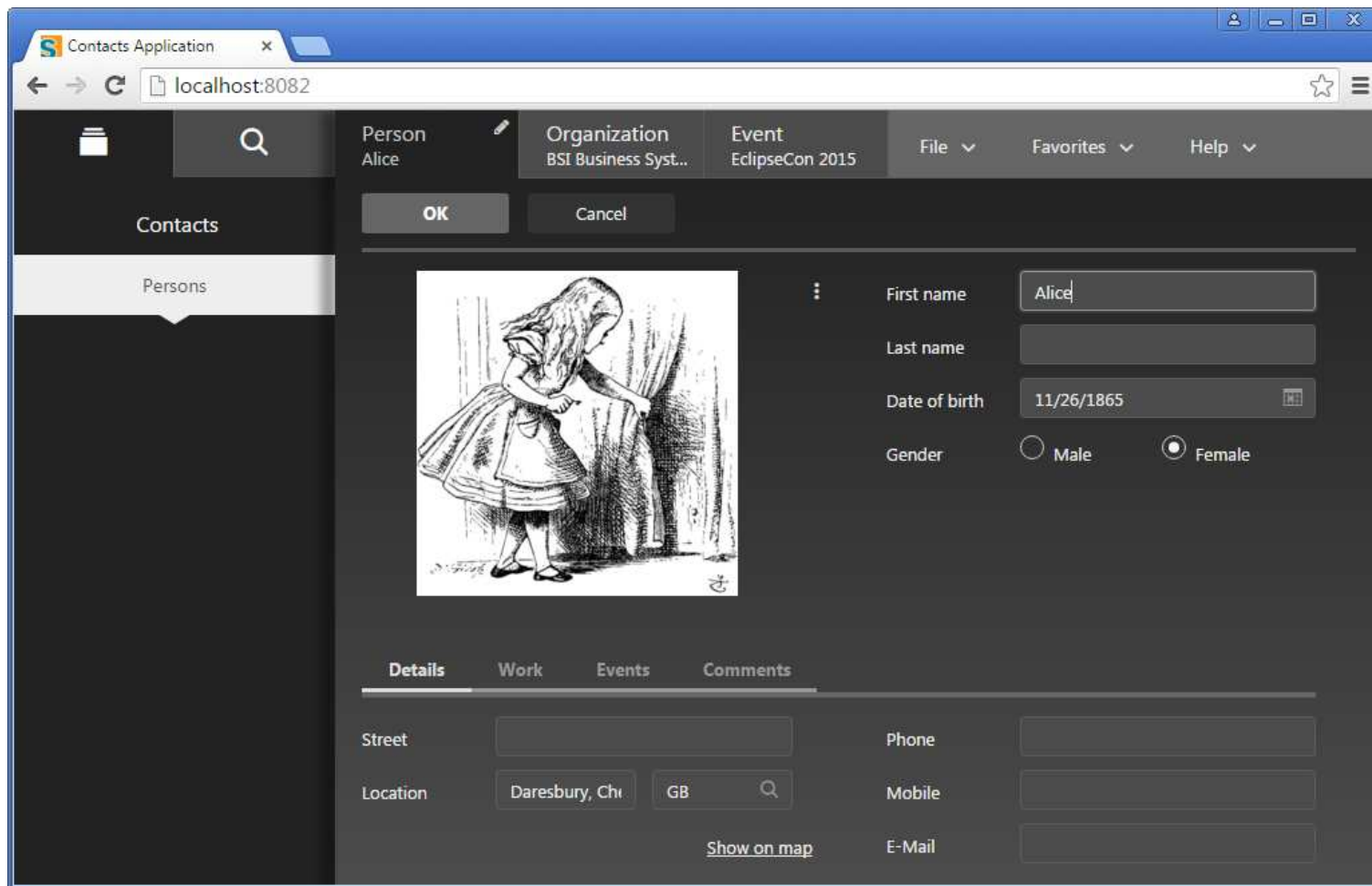
Implemented Process

1. Project specific files override Scout default
2. Assemble set of all applicable Less files
3. Process Less files and create single big CSS file
4. Minify CSS and sent it to browser

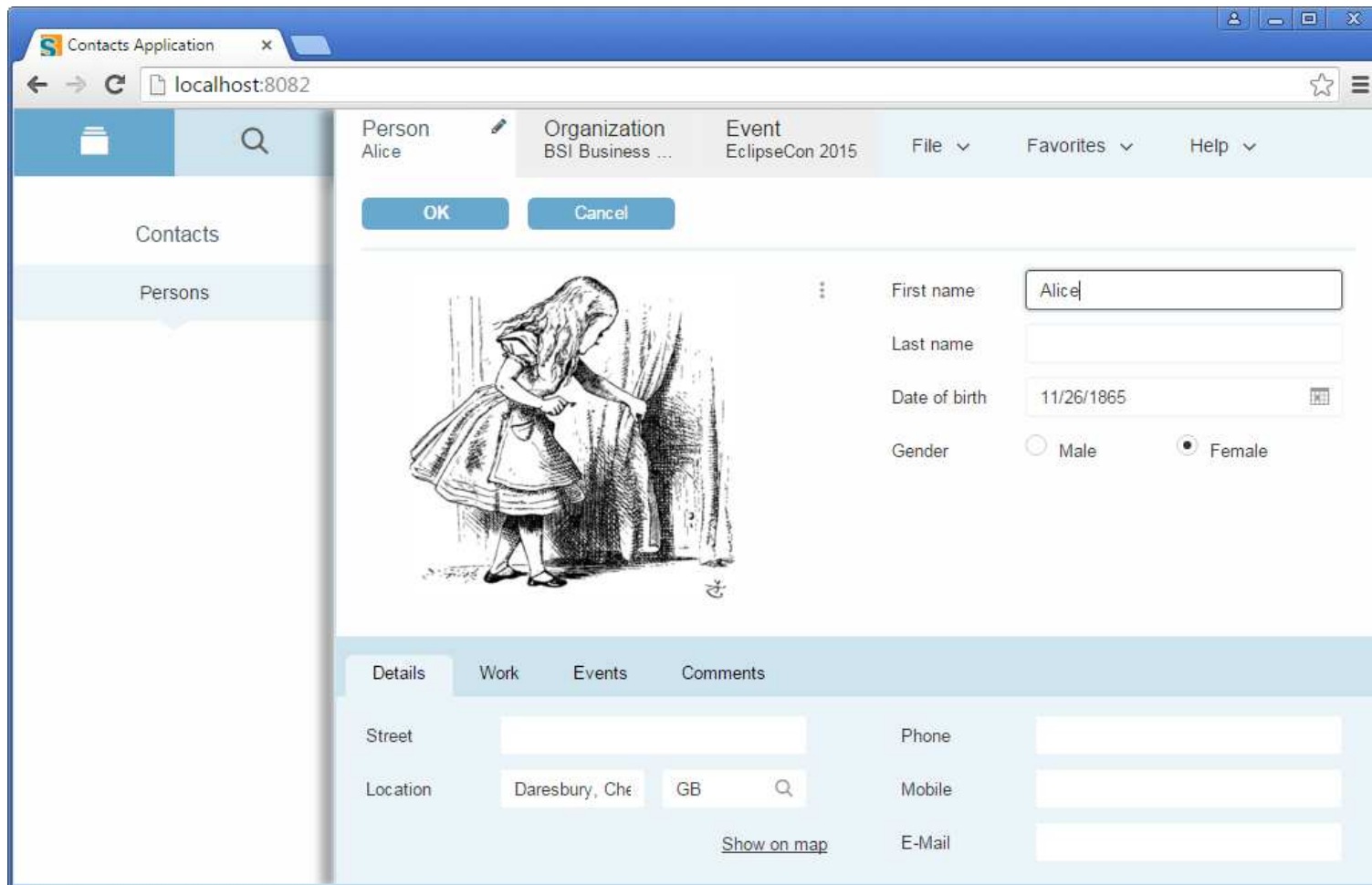
Default Theme



Dark Theme



Rayo Theme



Styling

Global Styling

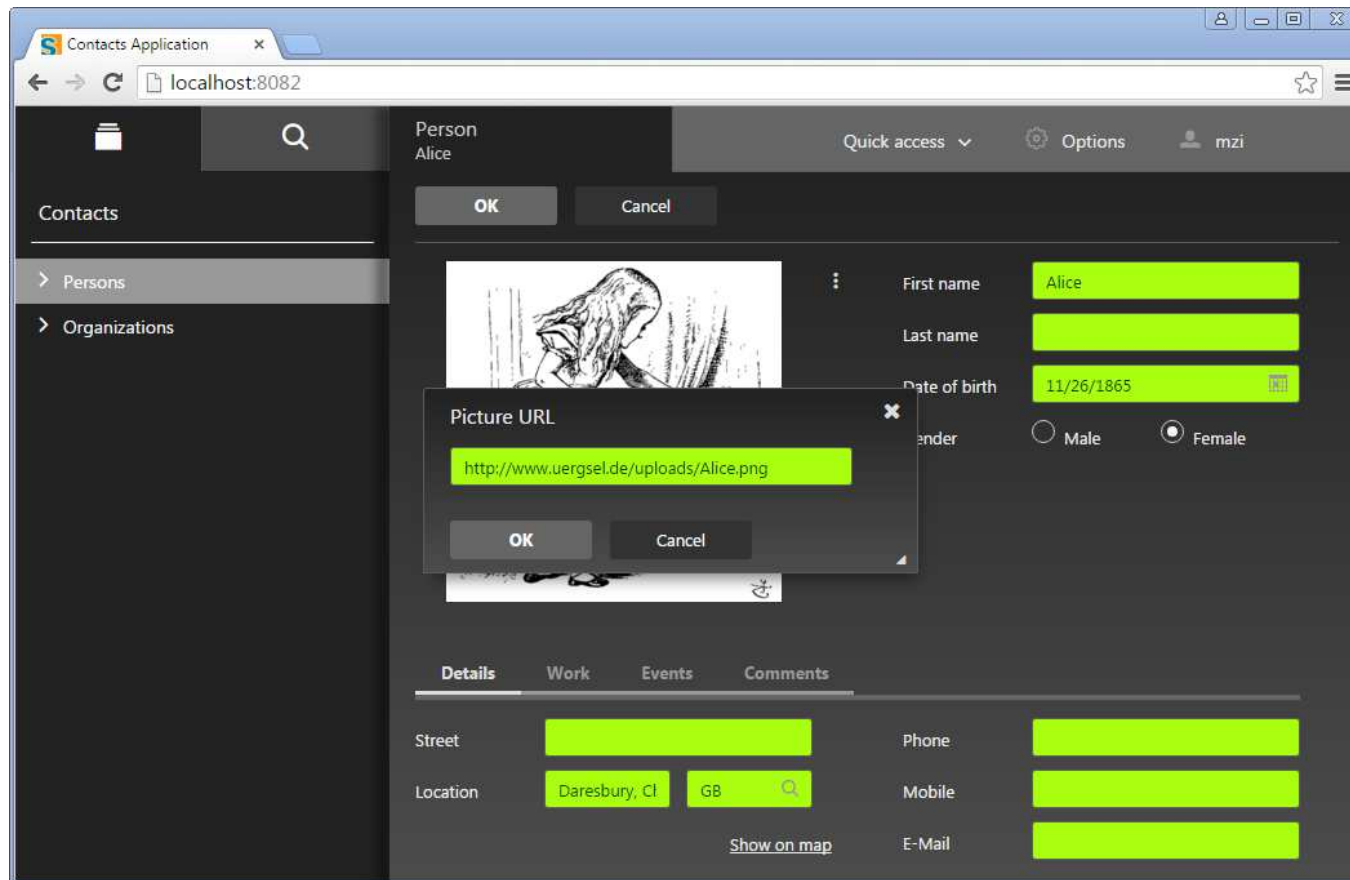
- Globally change application colors, fonts, ...
- Simple and low effort
- **Example**: Color of data fields

Styling of Components

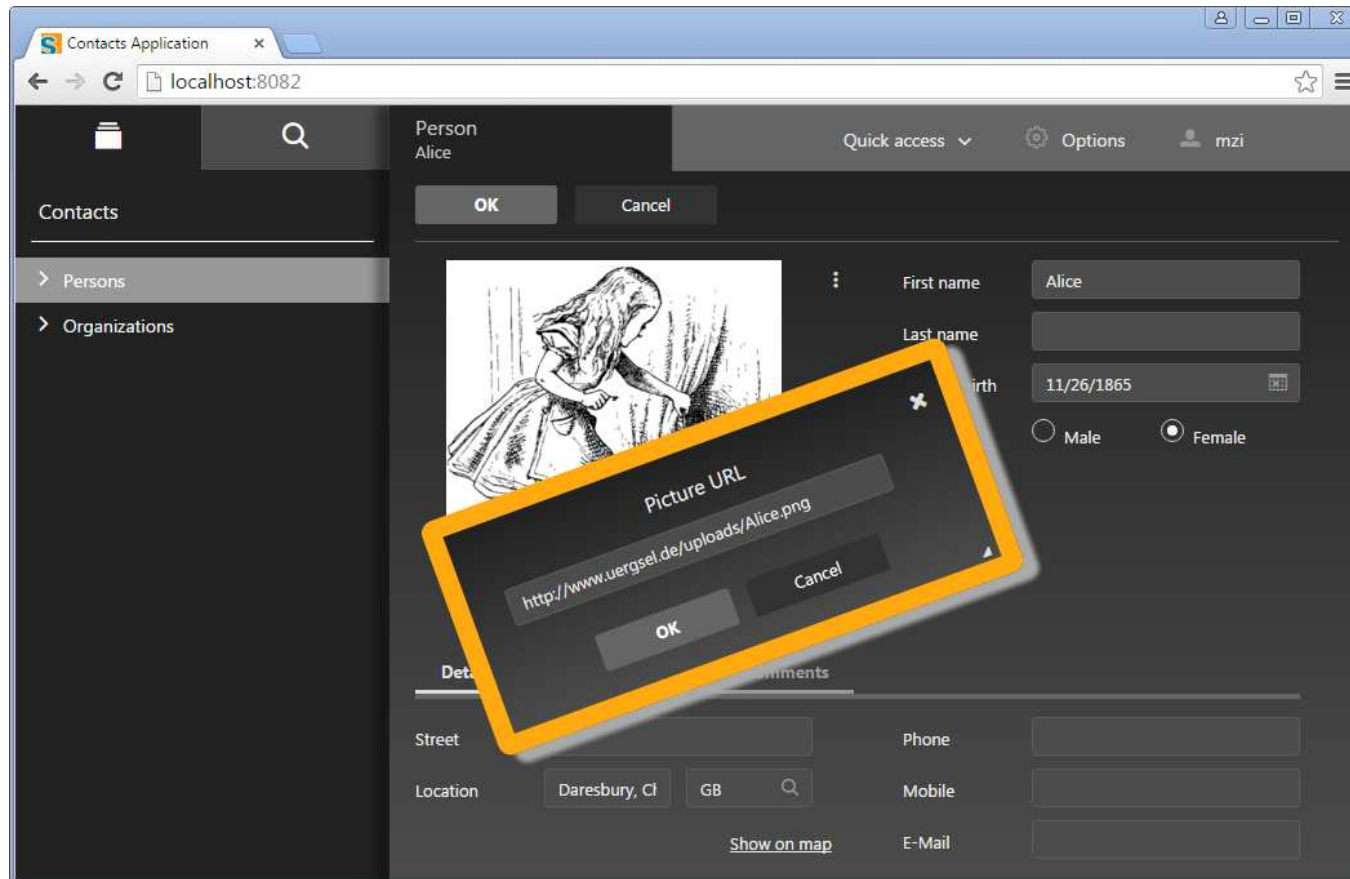
- Change individual elements
- Powerful but more CSS knowledge required
- **Example**: Appearance of dialogs

Global Styling

Colors of Data Fields



Styling of individual Component Appearance of Dialogs



Eclipse Scout Neon
Summary

Summary – Part 1

The Scout Story

- Changes in platform technology
- Many Changes in UI technology
- Product code was never thrown away for 15 years

What can Scout do for you?

- Help to efficiently implement business apps
- Protect your investment over many, many years

Summary – Part 2

The new Java Platform

- Directly based on Java
- Maven «by the books»

The new HTML5 UI

- Directly based on HTML5/CSS3/JavaScript
- Powerful theming and styling

Thanks

@EclipseScout 