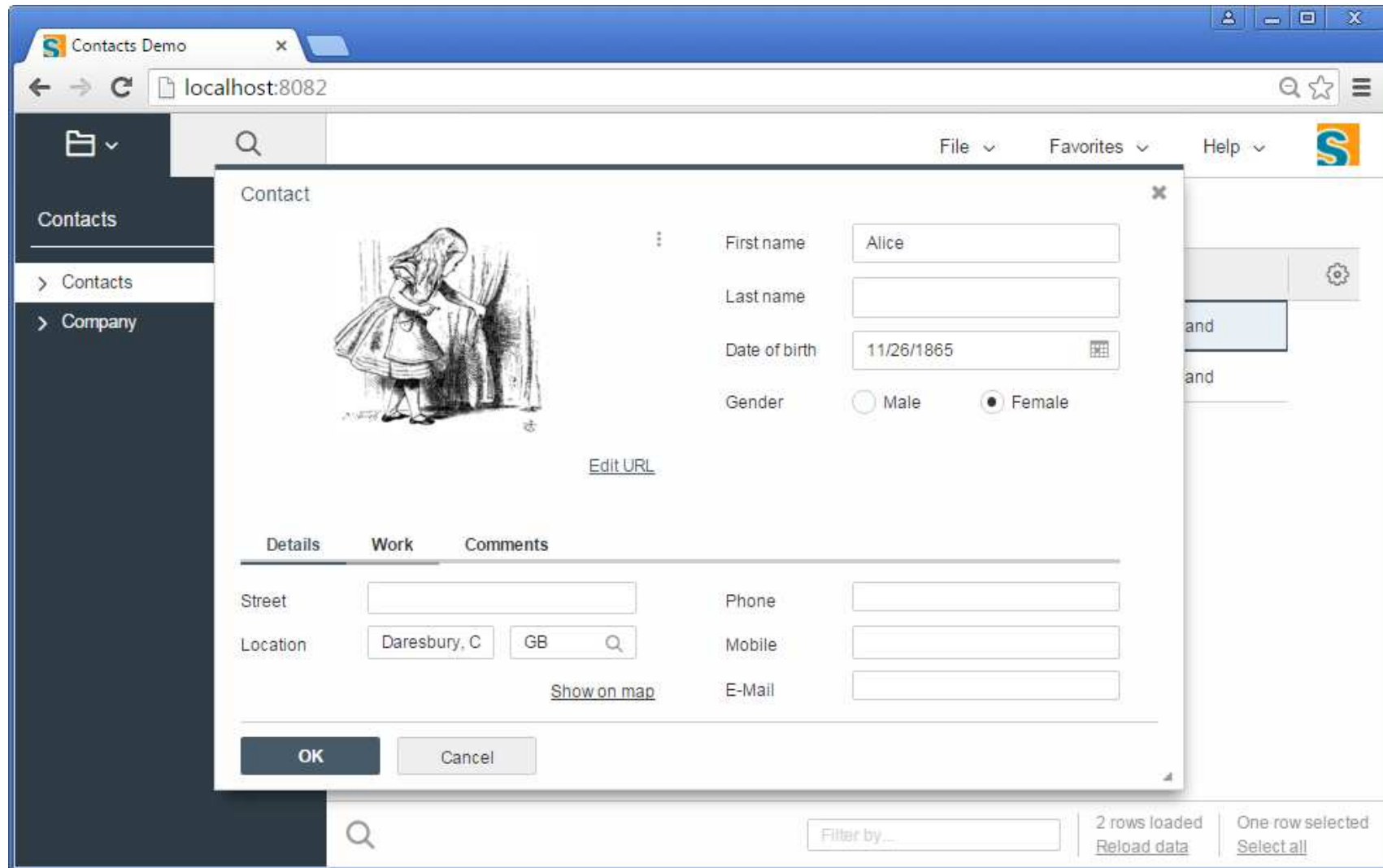


# Styling Scout Apps

Matthias Zimmermann

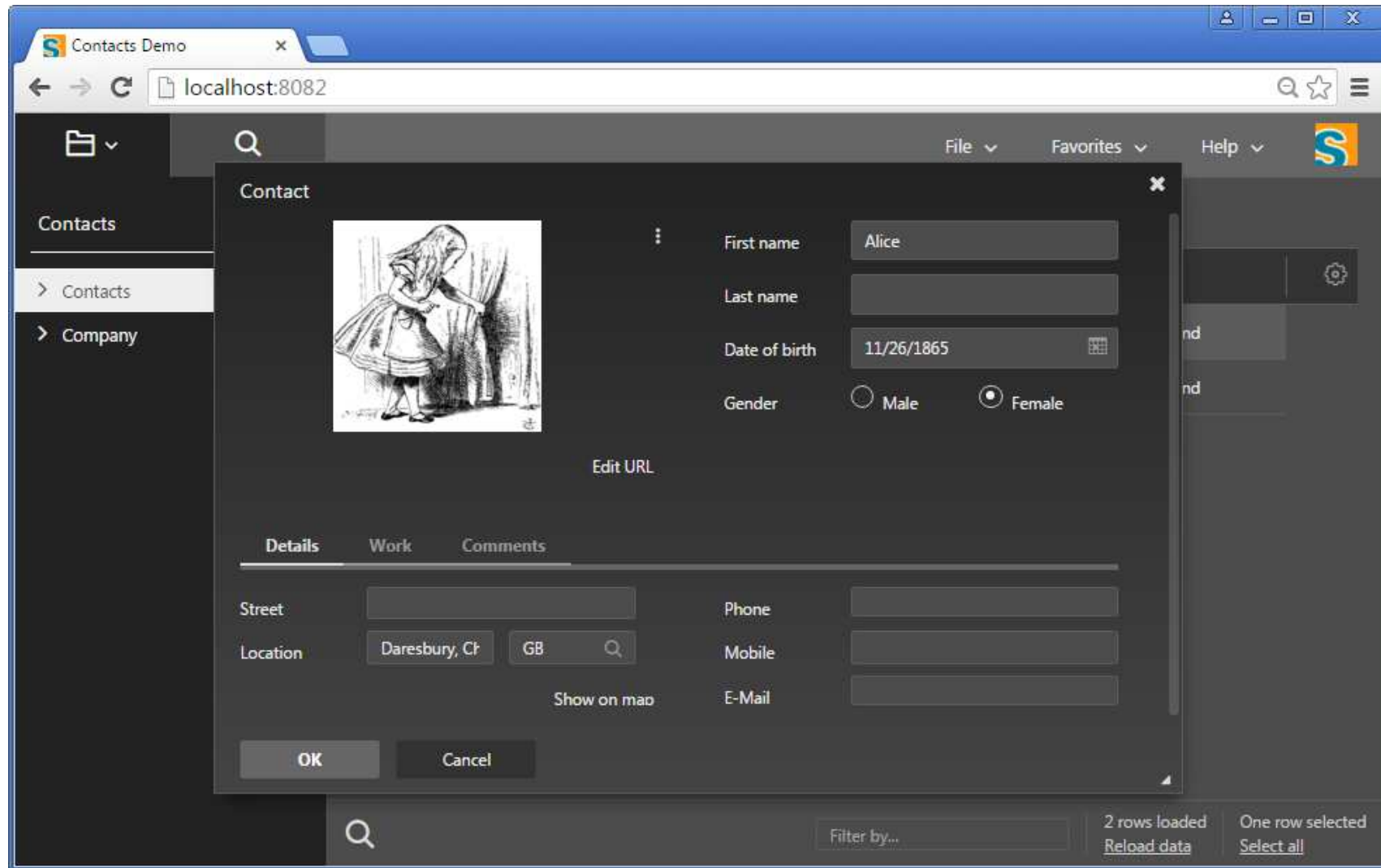


# Default



**Please note:** Final theme may change until Neon ...

# “Dark”



# “Rayo”

The screenshot shows a web browser window titled "Contacts Demo" at the URL "localhost:8082". The browser interface includes a search bar, a menu with "File", "Favorites", and "Help", and a sidebar with "Contacts" and "Company" sections. A "Contact" dialog box is open, displaying the following information:

- Image:** A black and white illustration of a woman in a long dress and hat.
- First name:** Alice
- Last name:** (empty field)
- Date of birth:** 11/26/1865
- Gender:**  M...  Fem...
- Street:** (empty field)
- Location:** Daresbury, C GB
- Phone:** (empty field)
- Mobile:** (empty field)
- E-Mail:** (empty field)

Below the contact details, there are tabs for "Details", "Work", and "Comments". The "Details" tab is active. At the bottom of the dialog, there are "OK" and "Cancel" buttons. In the background, a table is partially visible with rows containing "erland".

At the bottom of the browser window, there is a search bar, a "Filter by..." dropdown, and status information: "2 rows loaded", "Reload data", and "One row selected", "Select all".

# Styling with Scout

## Technology

→ CSS3

→ Less

## CSS Organisation

→ Global CSS files (colors, fonts, sizes, ...)

→ Additional CSS files for each UI components (Field, Button...)

## From Less to final CSS

→ Project specific files override Scout defaults

→ Single big CSS is assembled, processed and minified

# Agenda

Intro

## Basics

→ CSS / Less

## Scout Styling

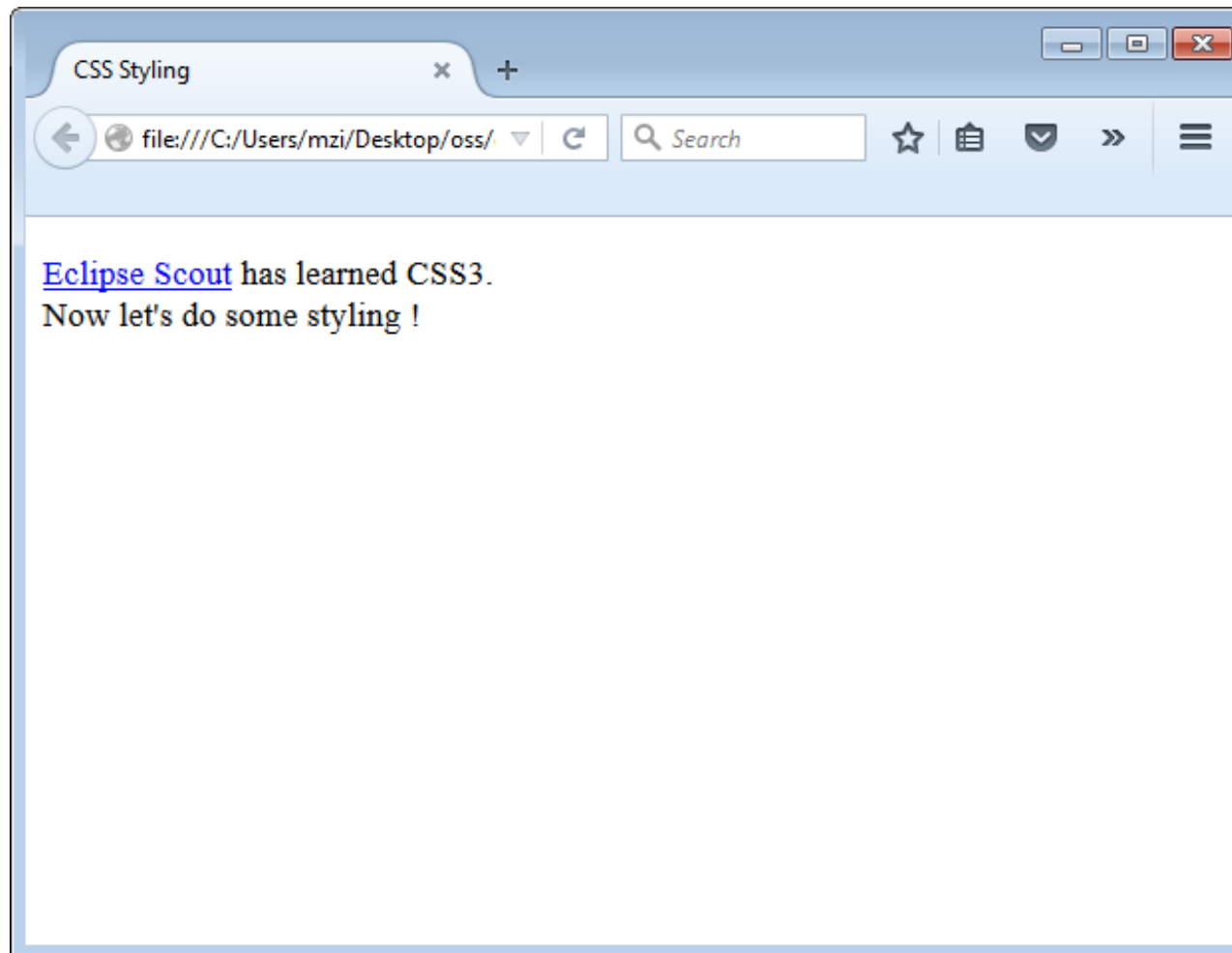
→ Custom Themes

→ Global Styling

→ Styling Individual Components

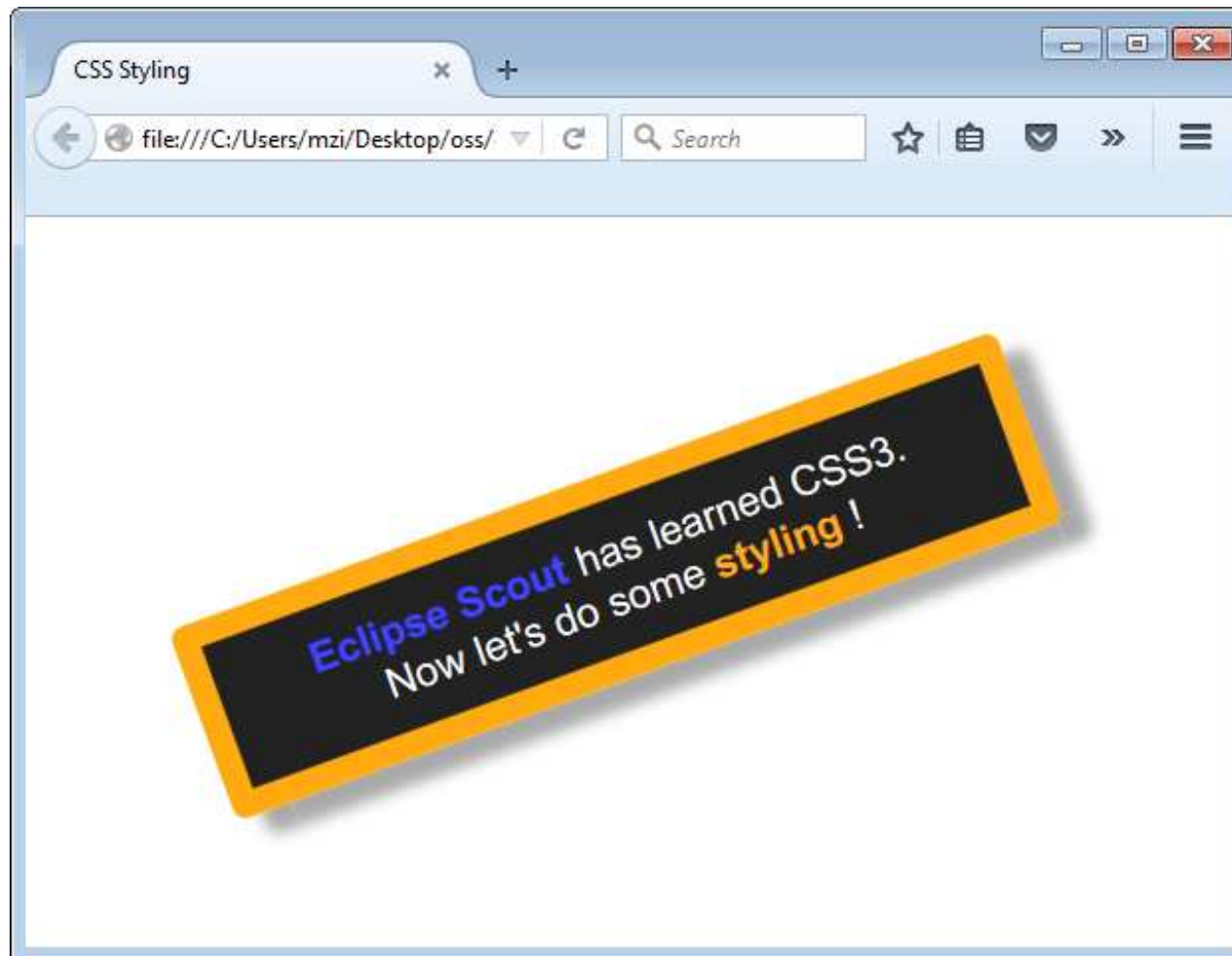
Basics  
CSS3 & Less

# Plain HTML





# Styling with CSS3



# CSS Selectors

```
<style>
```

```
a {  
  color: #008;  
  font-weight: bold;  
  text-decoration: inherit;  
}  
  
a:hover {  
  color: #bbf;  
  text-decoration: underline;  
}
```

```
#note {  
  ...  
  color: #fff;  
  background-color: #06f;  
  transform: rotate(-20deg);  
  box-shadow: 10px 10px 5px #aaa;  
  ...  
  border-radius: 5px;  
  border: 20px solid #fa1;  
}
```

```
.emphasise {  
  color: #fa1;  
  font-weight: bold;  
}
```

```
</style>
```

Element `a, p, div, ...`

ID `id="foo"`

Class `class="bar"`

```
<body>
```

```
<div>
```

```
<p id="note">  
  <a href="http://www.eclipse.org/scout">  
    Eclipse Scout  
  </a>  
  has learned CSS3. <br>  
  Now let's do some  
  <span class="emphasise">  
    styling  
  </span>  
  !  
</p>
```

```
</div>
```

```
</body>
```

# CSS Downsides

## Inefficient, Copy & Paste, ...

```
<style>
  a {
    color: #008;
    font-weight: bold;
    text-decoration: inherit;
  }

  a:hover {
    color: #bbf;
    text-decoration: underline;
  }

  #note {
    ...
    color: #fff;
    background-color: #06f;
    transform: rotate(-20deg);
    box-shadow: 10px 10px 5px #aaa;
    ...
    border-radius: 5px;
    border: 20px solid #fa1;
  }

  .emphasise {
    color: #fa1;
    font-weight: bold;
  }
</style>
```



Eclipse Scout has learned CSS3.  
Now let's do some styling!

# Less

- CSS Preprocessing (JavaScript)
- CSS super set (valid CSS == valid Less)
- Adds variables and mixins
- **Reduce copy & paste**

# Less

```
<style>
```

```
...
```

```
  .emphasise {  
    color: #fa1;  
    font-weight: bold;  
  }  
</style>
```

# Less - Variables

```
<style>  
  @color-contrast: #fa1;
```

```
  ...
```

```
  .emphasise {  
    color: @color-contrast;  
    font-weight: bold;  
  }  
</style>
```

# Less - Mixins

```
<style>
  @color-contrast: #fa1;

  .text-contrast(@weight: bold) {
    color: @color-contrast;
    font-weight: @weight;
  }

  ...

  .emphasise {
    .text-contrast;
  }
</style>
```

Scout Styling  
**Custom Themes**



# Using a Custom Theme

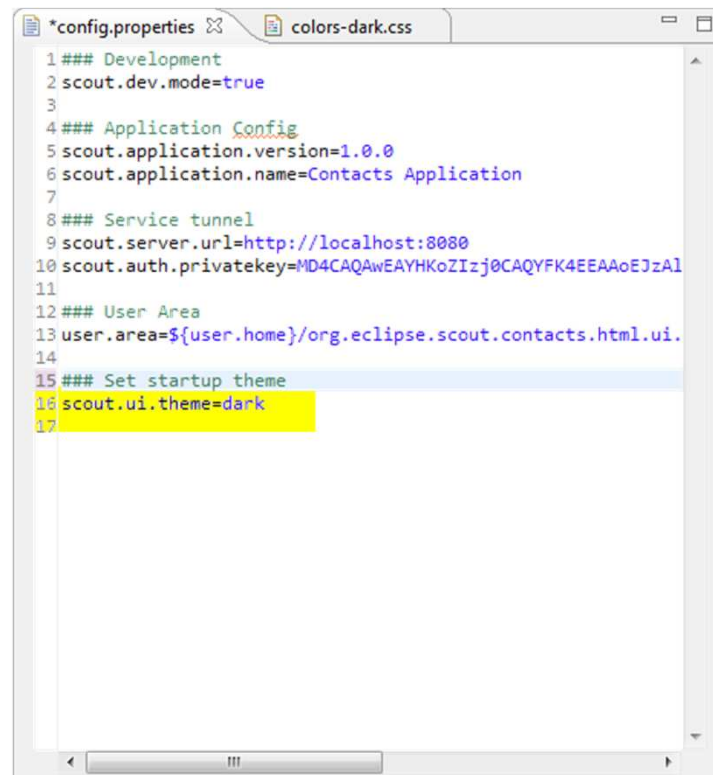
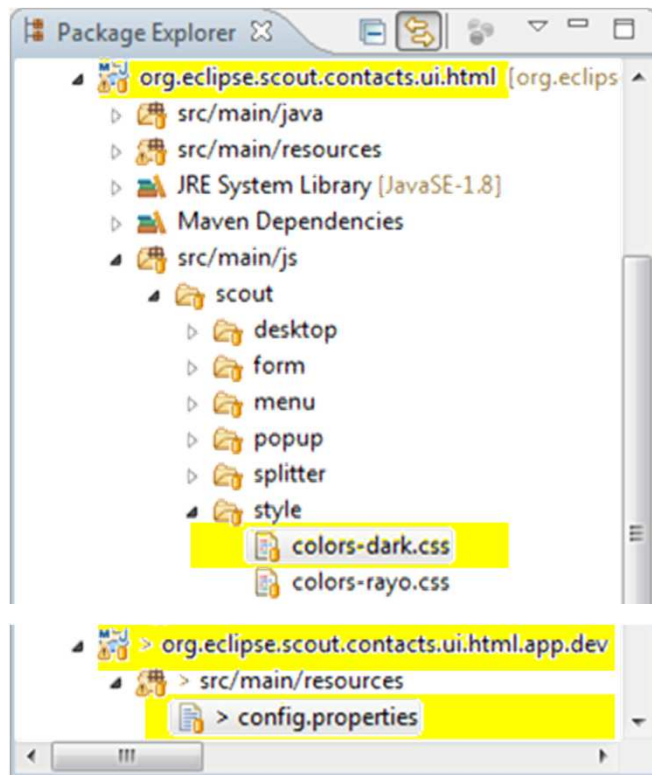
## How-to

1. Add `src/main/js/scout/style` to project html module
2. Copy css files to project (e.g. `colors.css`)
3. Rename css file (e.g. `colors-myTheme.css`)

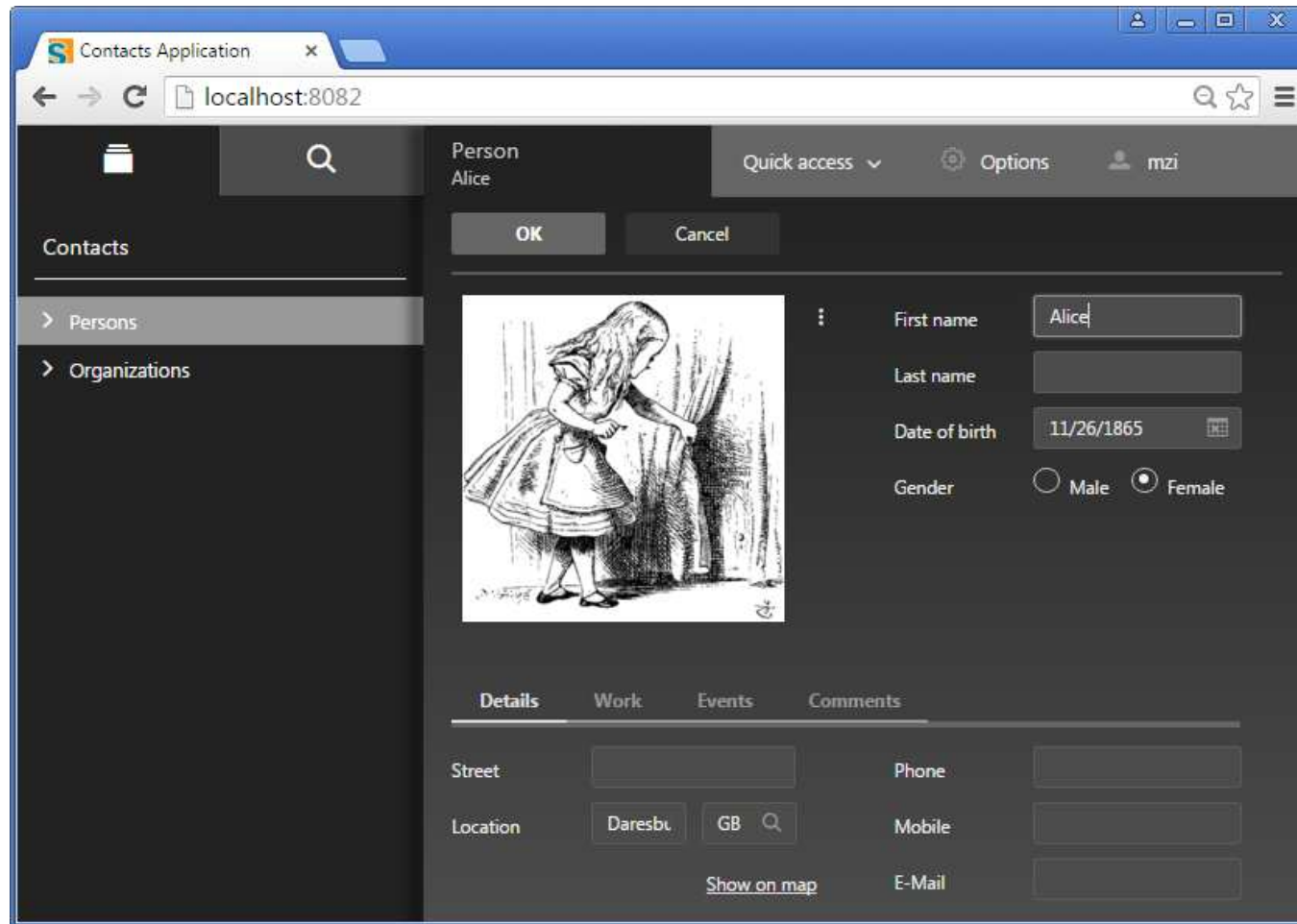
## Set theme:

- `scout.ui.theme="myTheme"` config.properties
- `getDesktop().setTheme("myTheme");` dynamically

# Using a Custom Theme «Dark»



# Using a Custom Theme «Dark»



# Styling with Global Properties

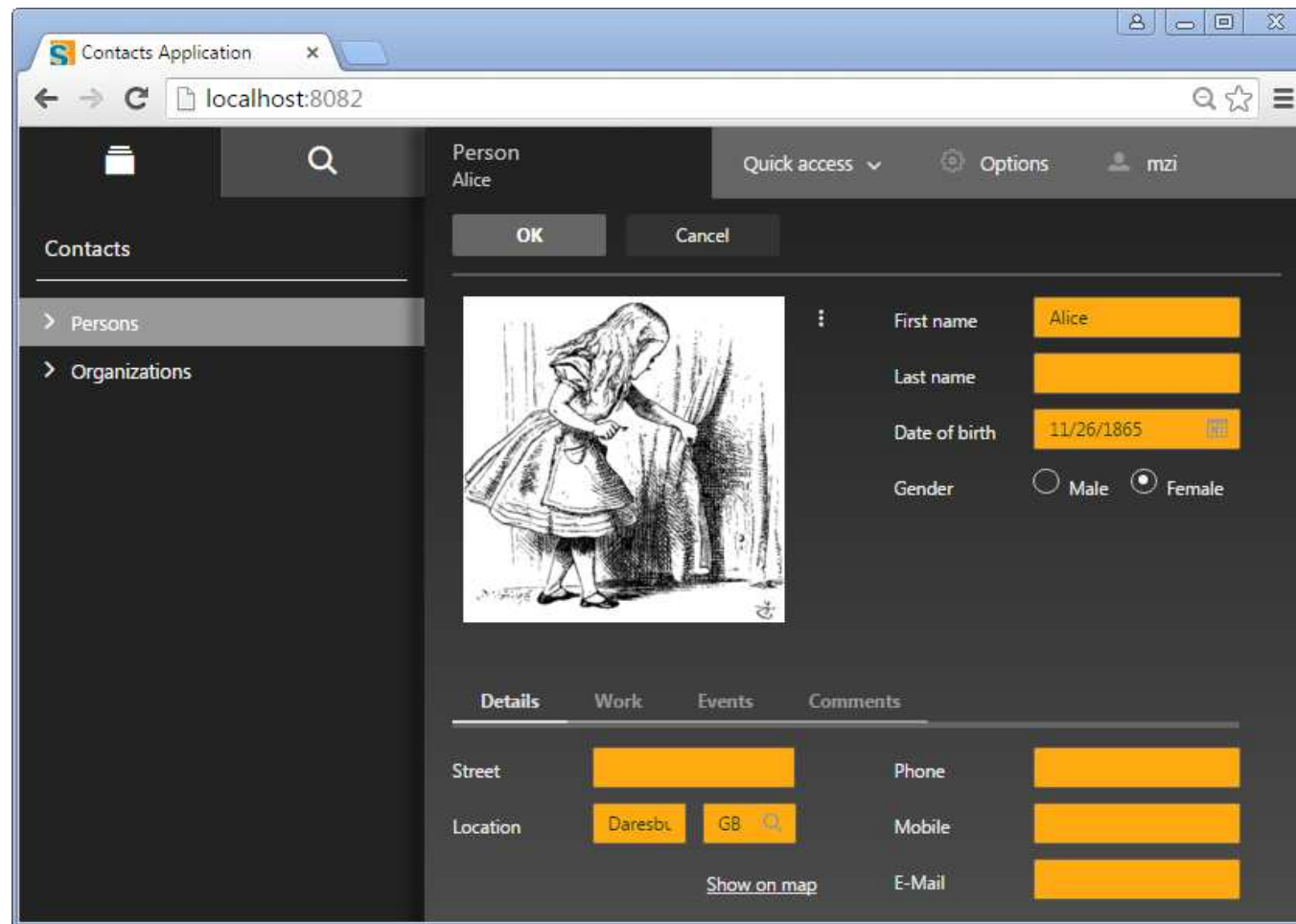
colors.css, fonts.css, sizes.css ...

## Use Case

- Styling of general appearance
  - Colors
  - Fonts
  - Sizes
- Low effort with upgrades
- Simple and efficient

# Changing a Custom Theme

@control-background-color = #fa1;



# Styling Individual Components

## Forms.css, Menu.css, Desktop.css ...

### Use Cases

- Modify appearance of individual component
- Override component Less/CSS3 files
- Additional efforts for Scout upgrades

### Please note

- Current state (Nov 2015) is work in progress
- There are still 7 months until Neon M7

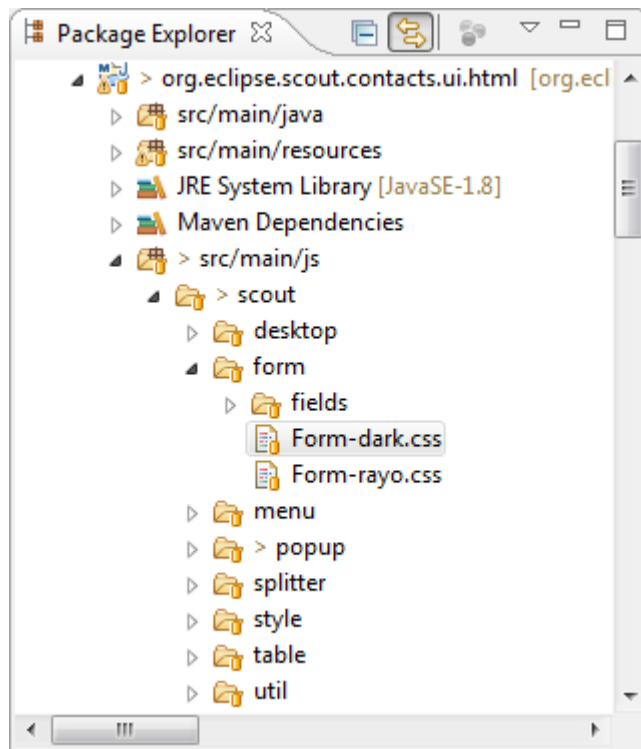
# Example .dialog

The screenshot shows a web browser window titled "Contacts Application" at the URL "localhost:8082". The application displays a contact form for "Alice". A modal dialog titled "Picture URL" is open, showing the URL "http://www.uegsel.de/uploads/Alice.png" and "OK" and "Cancel" buttons. The contact form includes fields for "First name" (Alice), "Last name", "Date of birth" (11/26/1865), "Gender" (Male/Female), "Street", "Phone", "Location" (Dares \* ES), "Mobile", and "E-Mail". A "Show on map" link is also present. The browser's developer tools are open on the right, showing the HTML structure and CSS styles for the dialog. The HTML shows a div with id "scout.Form[1-1343]" and class "dialog ui-resizable". The CSS shows the dialog's styling, including position, background, border, and margin.

```
<div id="scout.Form[1-1343]" class="dialog ui-resizable" data-modelclass="org.eclipse.scout.contacts.client.common.Picture" data-classid="org.eclipse.scout.contacts.client.common.Picture" style="width: 384px; height: 146px; left: 238px; top: 217.5px;"></div>
```

```
dialog { position: absolute !important; background-image: linear-gradient(0deg, #4C4C4C, #222); border: 1px solid #5C5C5C; border-top-left-radius: 3px; border-top-right-radius: 3px; box-shadow: 4px 10px 18px -6px rgba(0, 0, 0, 0.5); margin: 10px 10px 15px; top: 0px; }
```

# Example .dialog

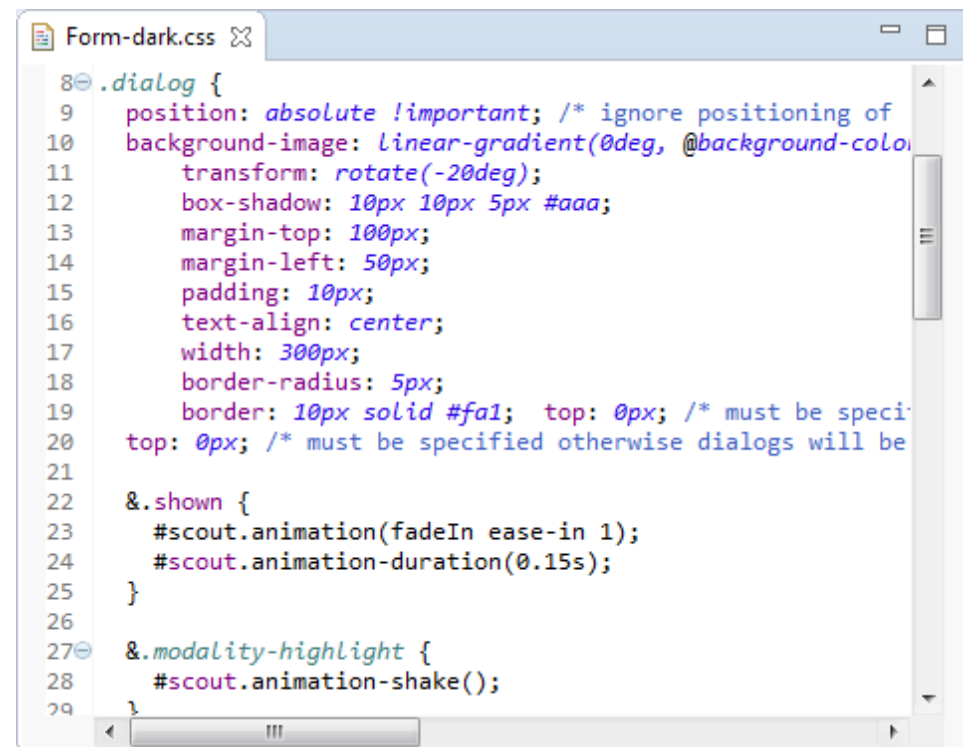
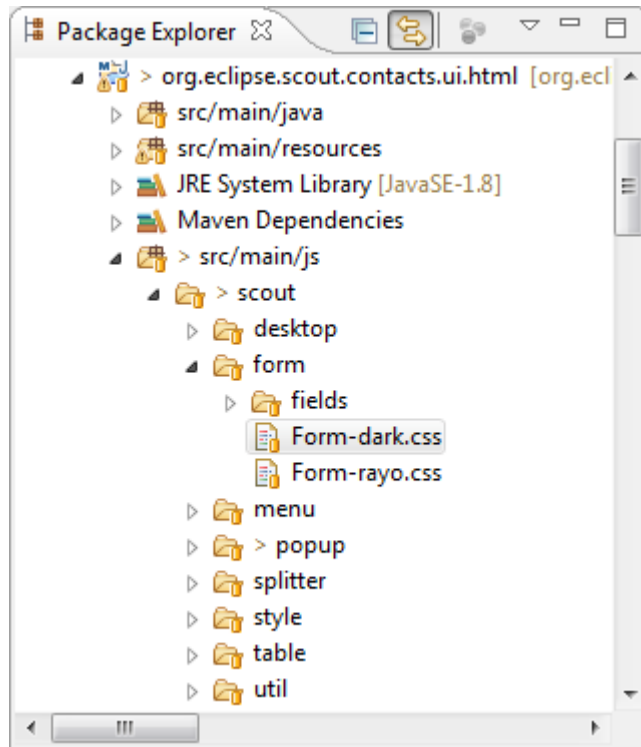


```
8 @ .dialog {
9   position: absolute !important; /* ignore positioning of
10  background-image: linear-gradient(0deg, @background-color
11  border: solid 1px @border-color;
12  border-top-left-radius: @border-radius;
13  border-top-right-radius: @border-radius;
14  #scout.drop-shadow-large();
15  margin: 10px; /* minimum padding to desktop */
16  margin-bottom: 15px;
17  top: 0px; /* must be specified otherwise dialogs will be
18
19  &.shown {
20    #scout.animation(fadeIn ease-in 1);
21    #scout.animation-duration(0.15s);
22  }
23
24  &.modality-highlight {
25    #scout.animation-shake();
26  }
27
28  & > .title-box {
29    margin-top: 10px;
```



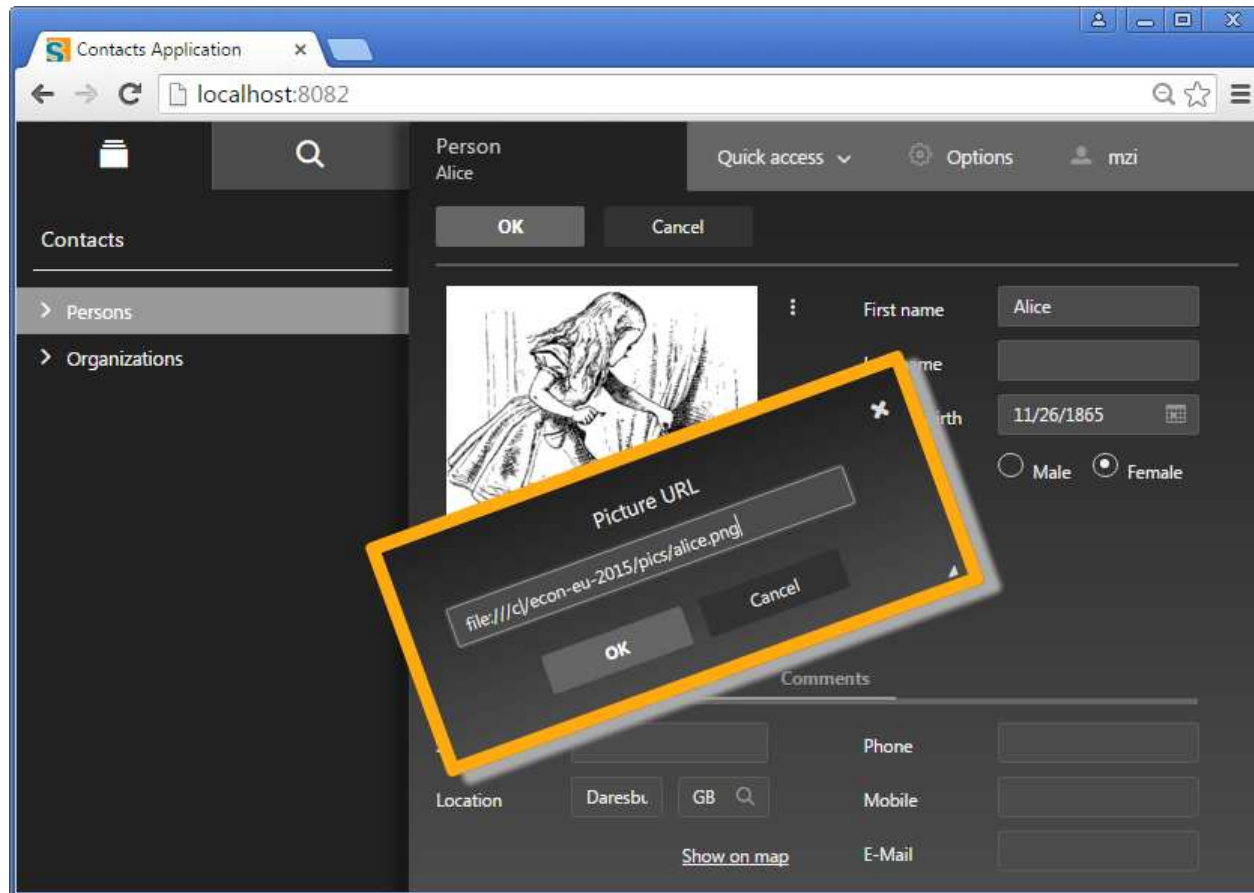
# Example

## .dialog – change some attributes



# Example

## .dialog – and reload ...



# Scout Styling Summary

# Styling Scout Apps

## Summary

### Setup

- HTML5 / CSS3 / Less
- Project specific themes
- Scout assembles and minifies final CSS

### Styling Approaches:

- Global CSS properties: colors, fonts, etc. (simple, low effort)
- Component CSS files: (flexible, higher effort)

# Thanks

@EclipseScout 

[matthias.zimmermann@bsi-software.com](mailto:matthias.zimmermann@bsi-software.com)

Scout Styling (Additional Material)  
**Customize `index.html`**

# Default index.html

Contacts Application x

localhost:8082

Person  
Alice

File v Favorites v Help v

OK Cancel

Contacts

> Persons


> Organizations

First name Alice

Last name

Date of birth 11/26/1865

Gender  Male  Female



Details Work Events Comments

Street

Location Daresbury, Cheshire GB

Phone

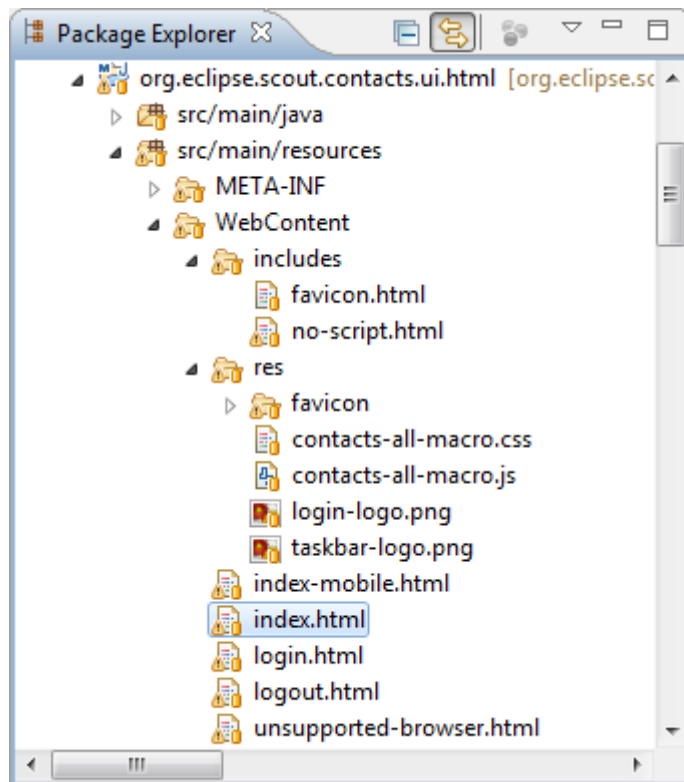
Mobile

E-Mail

[Show on map](#)

# index.html

<div class="scout">



```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="UTF-8">
    <title>Contacts Application</title>
    <scout:include template="favicon.html" />
    <scout:stylesheet src="res/contacts-all-macro.css" />
    <scout:script src="res/jquery-all-macro.js" />
    <scout:script src="res/contacts-all-macro.js" />
    <script>
      $(document).ready(function() {
        scout.init({
          bootstrap: {
            fonts: ['scoutIcons']
          },
          session: {
            uiUseTaskbarLogo: true
          }
        });
      });
    </script>
  </head>
  <body>
    <scout:include template="no-script.html" />
    <div class="scout" data-partid="1"></div>
  </body>
</html>
```

An orange arrow points to the line: `<div class="scout" data-partid="1"></div>`



# index.html

## Default <body>

```
<body>  
  <scout:include template="no-script.html" />  
  <div class="scout" data-partid="1"></div>  
</body>
```

# index.html

## Default <body> + additional HTML

```
<body>
  <div id="header">
    <h1>Custom Header</h1>
  </div>
  <div id="background-pane">
    <div id="inlinebox">
      <div id="infobox">
        <h2>Lorem</h2>
        <p>Lorem ipsum dolor sit amet, consetetur sadipscing elitr,
        sed diam nonumy eirmod tempor invidunt ut labore et dolore
        magna aliquyam erat, sed diam voluptua. At vero eos et accusam
        et justo duo dolores et ea rebum. Stet clita kasd gubergren,
        no sea takimata sanctus est Lorem ipsum dolor sit amet.
        </p>
      </div>
      <div id="infobox">
        <h2>Links</h2>
        <p><a href="http://www.eclipse.org/scout" target="_blank">Homepage</a><p>
        <p><a href="https://twitter.com/EclipseScout" target="_blank">Twitter</a><p>
        <p><a href="https://www.bsi-software.com/en/scout-blog.html" target="_blank">Blog</a><p>
      </div>
    </div>
    <div id="inlinebox">
      <div id="scoutapp">
        <scout:include template="no-script.html" />
        <div class="scout" data-partid="1"></div>
      </div>
    </div>
  </div>
  <div id="footer">
    Custom Footer - Copyright © Eclipse Scout Project
  </div>
</body>
</html>
```

# index.html

## Default <body> + additional HTML + CSS

```
<body>
  <div id="header">
    <h1>Custom Header</h1>
  </div>
  <div id="background-pane">
    <div id="inlinebox">
      <div id="infobox">
        <h2>Lorem</h2>
        <p>Lorem ipsum dolor sit amet, consetetur sadipscid elitr, sed diam nonumy eirmod tempor invidunt ut labore et dolore magna aliquyam erat, sed diam voluptua. At vero et justo duo dolores et ea rebum. Stet clita kasd gubergren, no sea takimata sanctus est Lorem ipsum dolor sit amet.
        </p>
      </div>
      <div id="infobox">
        <h2>Links</h2>
        <p><a href="http://www.eclipse.org/scout" target="_blank">http://www.eclipse.org/scout</a>
        <p><a href="https://twitter.com/EclipseScout" target="_blank">https://twitter.com/EclipseScout</a>
        <p><a href="https://www.bsi-software.com/en/scout">https://www.bsi-software.com/en/scout</a>
      </div>
    </div>
    <div id="inlinebox">
      <div id="scoutapp">
        <scout:include template="no-script.html" />
        <div class="scout" data-partid="1"></div>
      </div>
    </div>
  </div>
  <div id="footer">
    Custom Footer - Copyright © Eclipse Scout Project
  </div>
</body>
</html>
```

```
<style>
  #header {
    background-color:white;
    padding-left: 20px;
    padding-bottom: 5px;
  }

  #scoutapp {
    border-radius: 10px;
    background-color: #ccc;
    padding: 15px;
    width: 1000px;
  }

  #footer {
    background-color:red;
    color:white;
    text-align:center;
    padding:5px;
    bottom: 0;
    position: fixed;
  }

  /* update scout app: desktop class */
  .desktop {
    position: relative;
    height: 600px;
  }

  /* update scout app: hide scout logo */
  .taskbar-logo {
    visibility: hidden;
  }
</style>
</head>
```

# Custom index.html

The screenshot displays a web browser window titled "Contacts Application" at the URL "localhost:8082". The page features a "Custom Header" and a main content area with a sidebar and a central form.

**Custom Header:** The header includes a search icon and a menu icon. Below the header, there are navigation tabs for "Persons" and "Organizations".

**Left Sidebar:** Contains a "Lorem" section with placeholder text and a "Links" section with links to "Homepage", "Twitter", and "Blog".

**Person Detail Form:** The form is titled "Person Alice" and includes a "File" menu, "Favorites" dropdown, and "Help" dropdown. It has "OK" and "Cancel" buttons. The form fields are:

- First name: Alice
- Last name: [Empty]
- Date of birth: 11/26/1865
- Gender:  Male  Female

Below the form is a "Details" tab and a "Work" tab. The "Details" tab shows a street address, location (Daresbu, GB), and phone number. The "Work" tab shows a mobile phone number and an E-Mail address. A "Show on map" link is also present.

**Footer:** A red bar at the bottom contains the text "Custom Footer - Copyright © Eclipse Scout Project".