

A black and white photograph of a person running on a paved path. The person is wearing dark leggings and running shoes. In the background, a dog is visible, and the scene is slightly blurred, suggesting motion.

**„Take the RISC!“**

**CaptainCasa  
Enterprise Client**

**XII. Community Meeting**

# Agenda

- 10:00h Opening
- 10:15h RISC Client
  - Motivation, Basics
  - From Java Client to RISC Client
  - Style Management
  - SCENARIO: Nexus / Sparkasse / Egger
  - SCENARIO: Stand alone usage, KABA
- 11:45h Pause
- 12:00h RISC Client
  - RISC Client Subdevice integration
  - RISC Client HTML integration
  - SCENARIO: FORCAM

# Agenda

- 13:00h PAUSE
- 13:45h „Architectural Documentation“
- 14:30h Page Bean Components++
- 15:00h Maven++
- 15:15h Hot Deployment++
- 15:30h Pause
- 16:00h 2016 „sonstiges“
- 16:30h Roadmap, Positionierung, Planung

# Au weia. Roadmap 2016.

Business  
Client

Swing

JavaFX

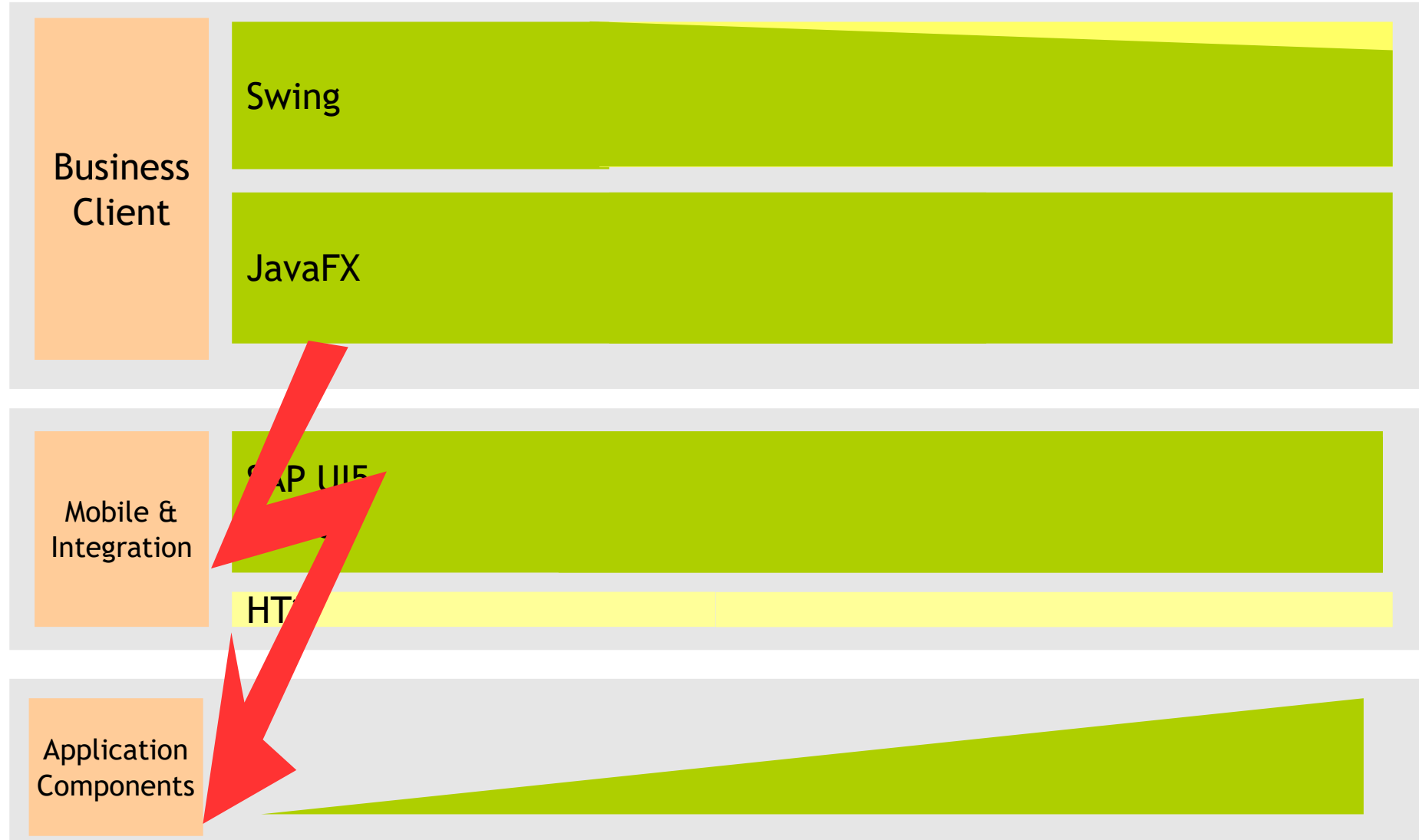
Mobile &  
Integration

SAP UI5  
based

HT\*

Application  
Components

# Au weia. Roadmap 2016.



# 03.12.2015 ++

The screenshot shows the Outlook interface for a POP account (bjoern.mu...ptainCasa.com). The left sidebar shows folders like Posteingang, Entwürfe (242), and Lokale Ordner. The main pane displays a list of emails with columns for 'Betreff', 'Gegenseite', and 'Datum'. Two messages are selected and their content is shown in the right pane.

Betreff	Gegenseite	Datum
Revolution!!!! (?)	→ Markus Reich	14.12.2015 18:56
...muss Euch mal 'was zeigen...	→ Tobias Hilka, Frauke Heyl	14.12.2015 18:35
Re: Frage zum Repeater	→ Markus Reich	14.12.2015 17:12
Re: Präsentationen schicken	→ Christian Rüger	14.12.2015 17:10

**2 Themen** [Archivieren] [Löschen]

**Revolution!!!! (?)** Björn Müller

Hallo Markus, ich muss Dir mal 'was zeigen... - insbesondere bevor Ihr irgendetwas mit UI5 und CaptainCasa machen solltet, könnte das wichtig sein. Melde Dich am besten einfach mal zu einer (kurzen) Screenshot Session. Viele Grüße! Björn -- Björn Müller CaptainCasa GmbH, Hindemithweg 13, ...

**...muss Euch mal 'was zeigen...** Björn Müller

Hallo Frauke, Hallo Tobias, ich muss Euch mal 'was zeigen... Ist von der Tragweite durchaus wert, mal bei Euch vorbeizuschauen. Zum Beispiel Donnerstag am nicht ganz frühen Nachmittag? Viele Grüße! Björn -- Björn Müller CaptainCasa GmbH, Hindemithweg 13, D-69245 Bammental +49 (0) 6223 / 484...

Diese Nachrichten belegen 2,0 KB.

# Activitymap 2016.

Business Client

Swing

JavaFX

Mobile & Integration

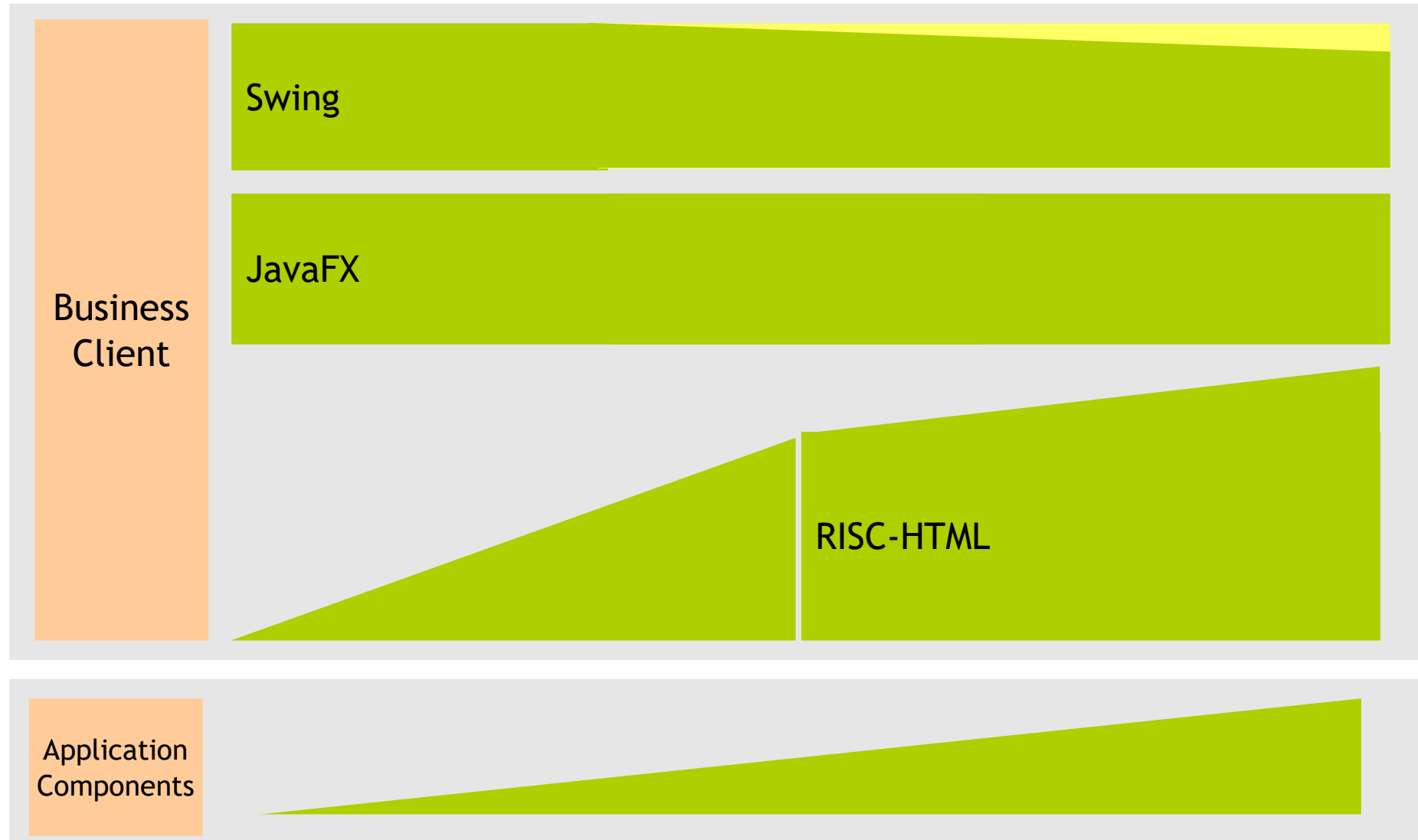
SAP UI5 based

HT\*

Application Components

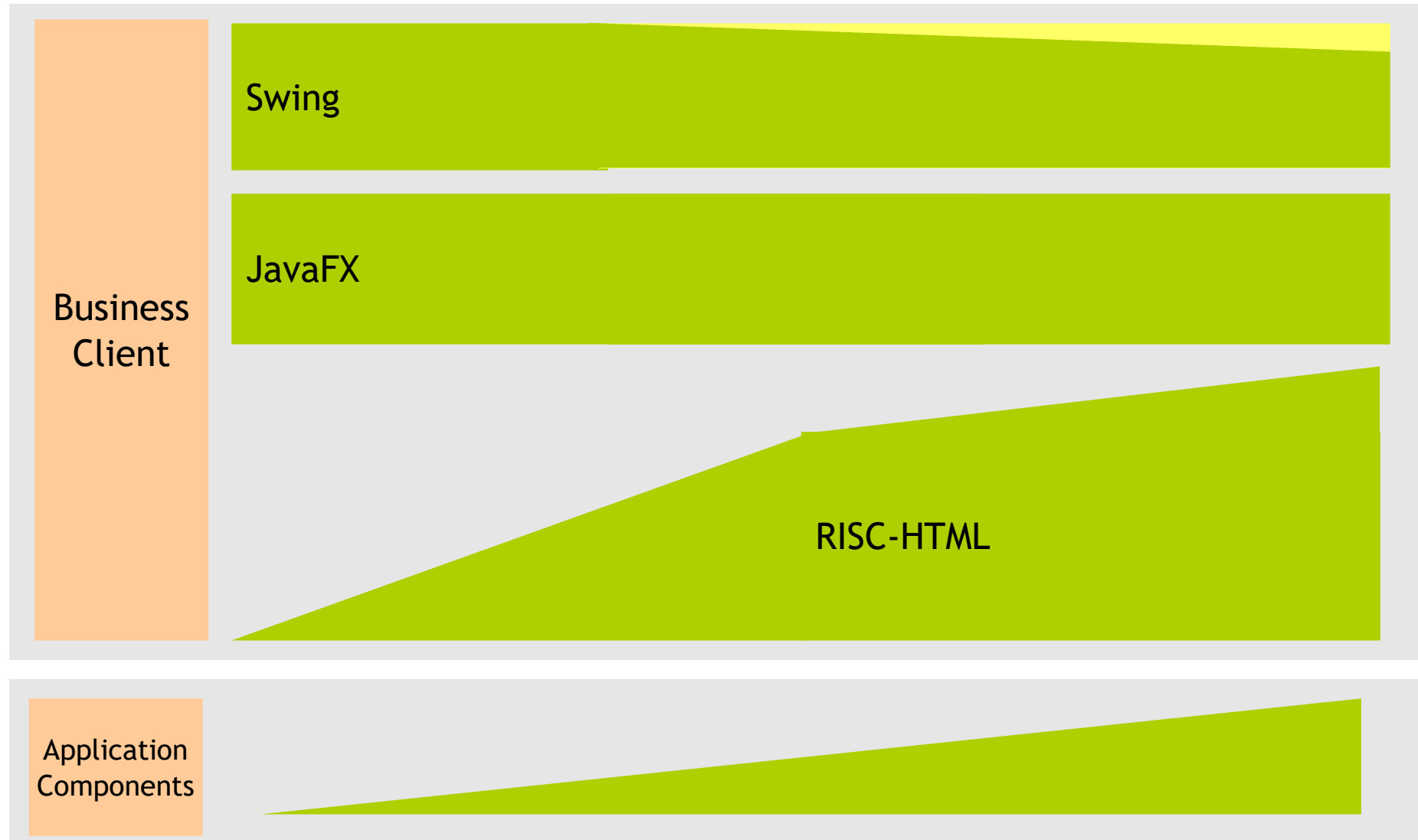


# Activitymap 2016.

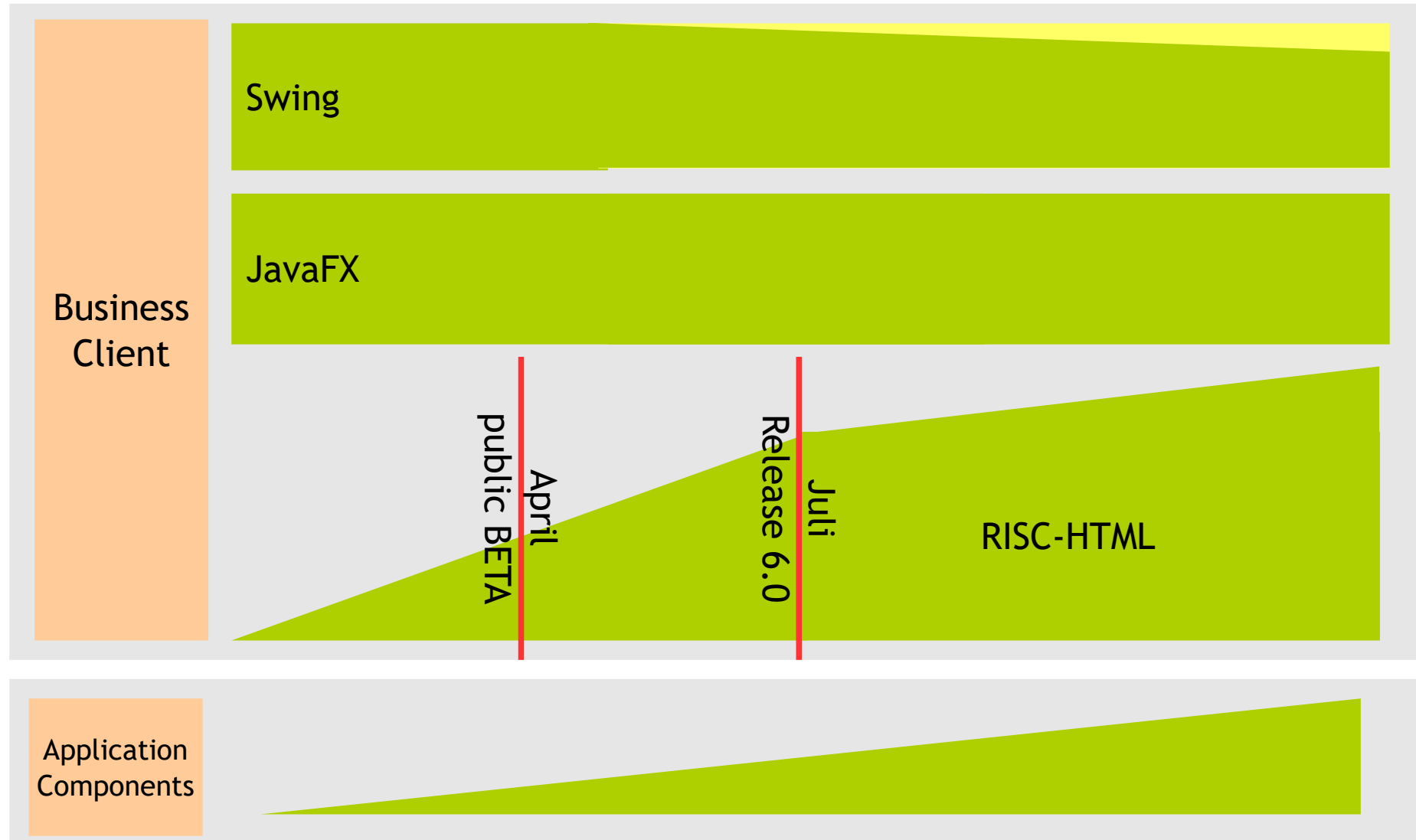




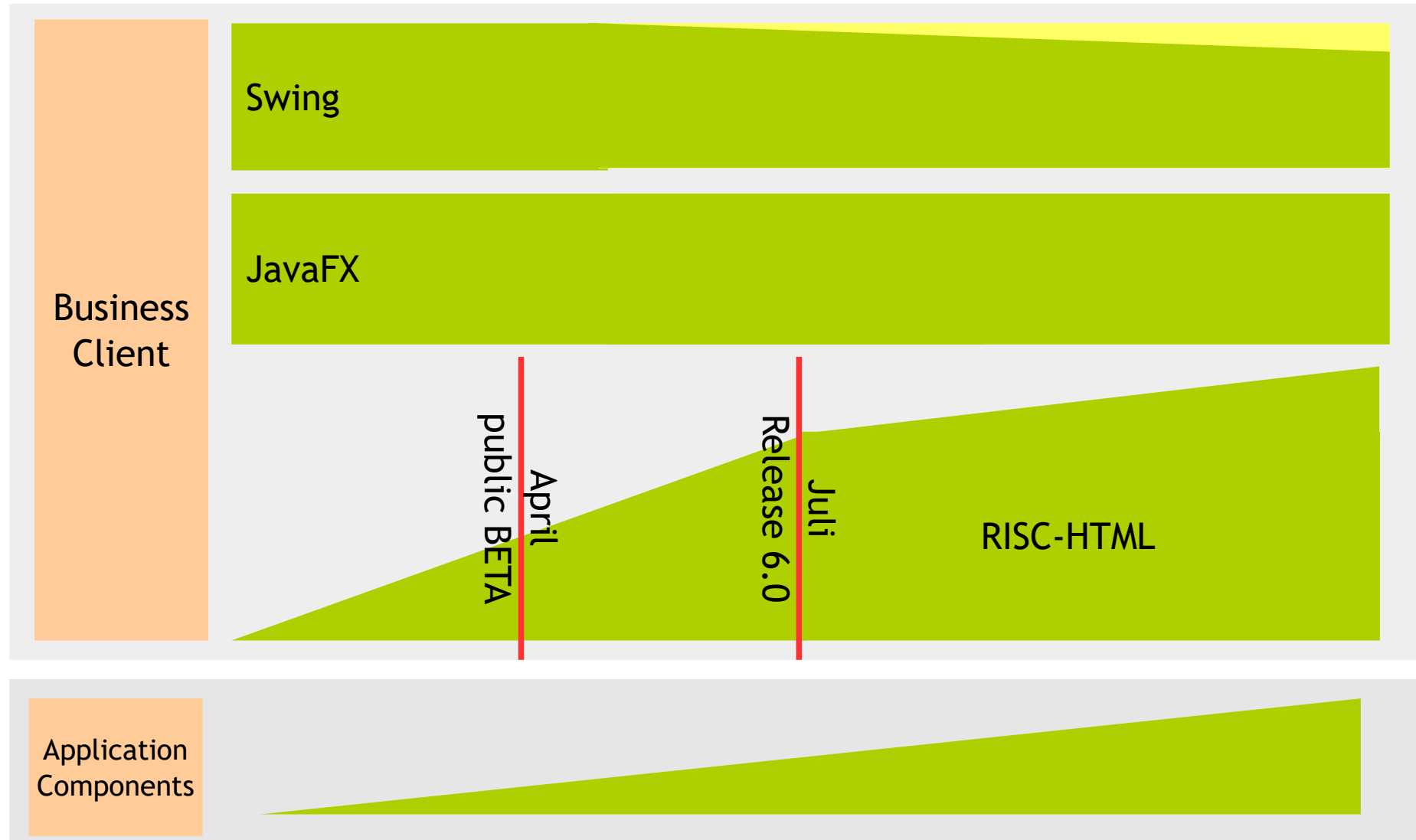
# Activitymap 2016.



# Activitymap 2016.



# Activitymap 2016.



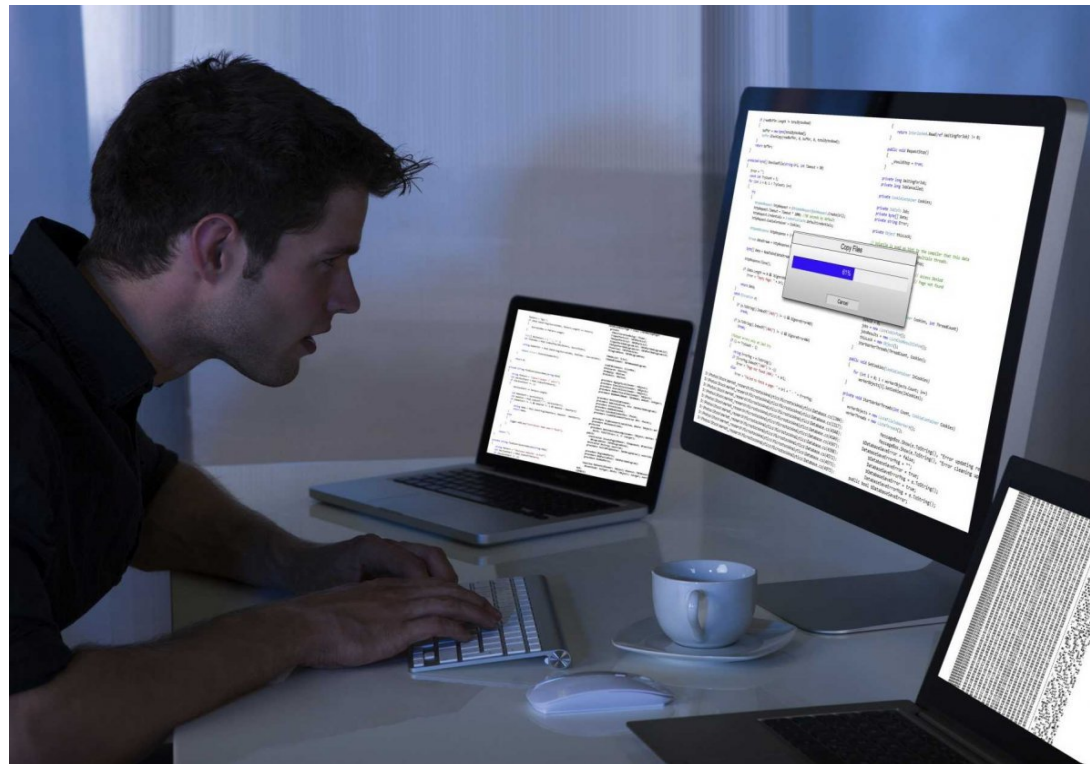
A black and white photograph of a person running on a paved path. The person's legs and feet are in focus, wearing athletic shorts, leggings, and running shoes. The background is blurred, showing other people and a dog in the distance.

**„Take the RISC!“**

**CaptainCasa  
Enterprise Client**

# Motivation

# Developers: Eat you own Dog Food!



# Developers: Eat you own Dog Food!

Reisekosten-  
abrechnung

Eclipse

Powerpoint

Projekt-  
rückmeldung

spiegel.de

Stack  
Overflow

Mail

# Developers: Eat you own Dog Food!

Stack  
Overflow

Reisekosten-  
abrechnung

Mail

Eclipse

Projekt-  
rückr

Powerpoint

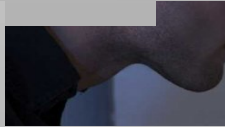
spiegel.de

WEB

Native

Client RISC

CaptainCat





# Developers: Eat you own Dog Food!

Simplicity first!

Efficiency first!

Reisekosten-  
abrechnung

Mail

Projekt-  
rückr

Powerpoint

spiegel.de

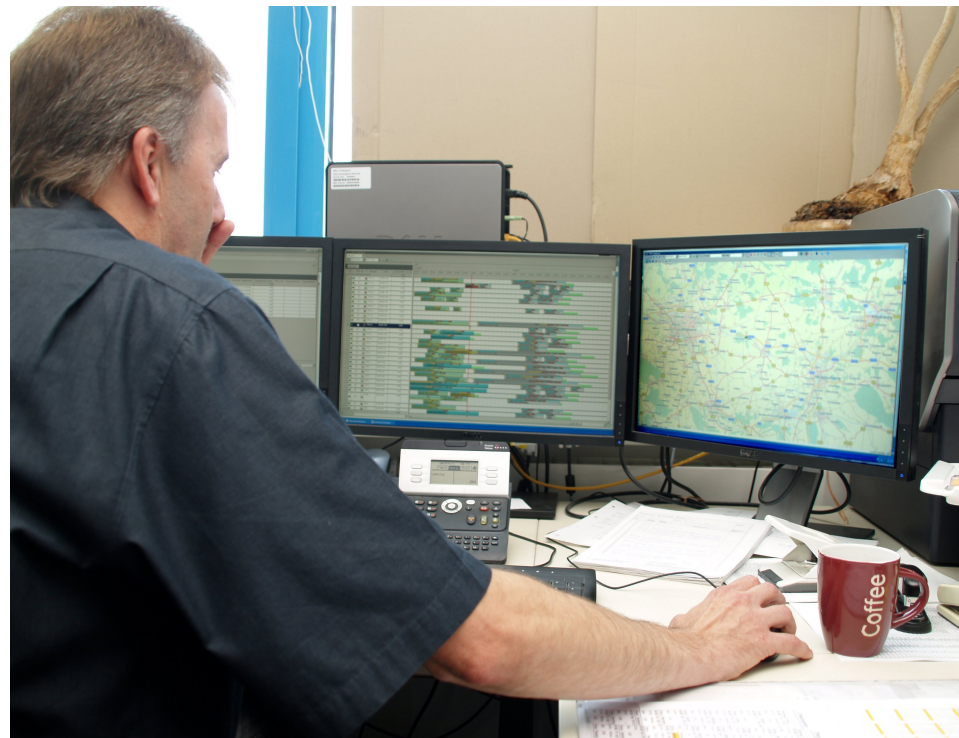
WEB

Native

Client

CaptainCat

# Developers: Eat you own Dog Food!



# Developers: Eat you own Dog Food!

Reisekosten-  
abrechnung

Disposition

Business  
Intelligence

Recherche

spiegel.de

Zeit  
erfassung

Mail

# Developers: Eat you own Dog Food!

spiegel.de

Recherche

Reisekosten-  
abrechnung

Zeit  
erfassung

Business  
Intelligence

Mail

Disposition

WEB

Native

RISC

CaptainCasa Ent

# Developers: Eat you own Dog Food!

**Simplicity first!**

**Efficiency first!**

de

Recherche

D...tion

Reisekosten-  
abrechnung

Business  
Intelligence

Zeit  
erfassung

Mail

WEB

Native

# Motivation



# Motivation



extern

intern



# Motivation

HTML  
Durchdringung

Cloud

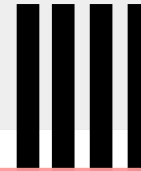


extern

intern



# Motivation



## UNBEHAGEN:

Browser/Devicekompatibilität  
Performance  
Layouting Restrictions

Langfristige Stabilität / Investitionssicherheit  
Entwicklungskosten  
Wartungskosten

HTML  
Durchdringung



extern

intern

**KONTROLLVERLUST**

# Motivation



## UNBEHAGEN:

HTML  
Durchdringung

Browser/ID



Wartungskosten  
Wartungskosten

Renewal

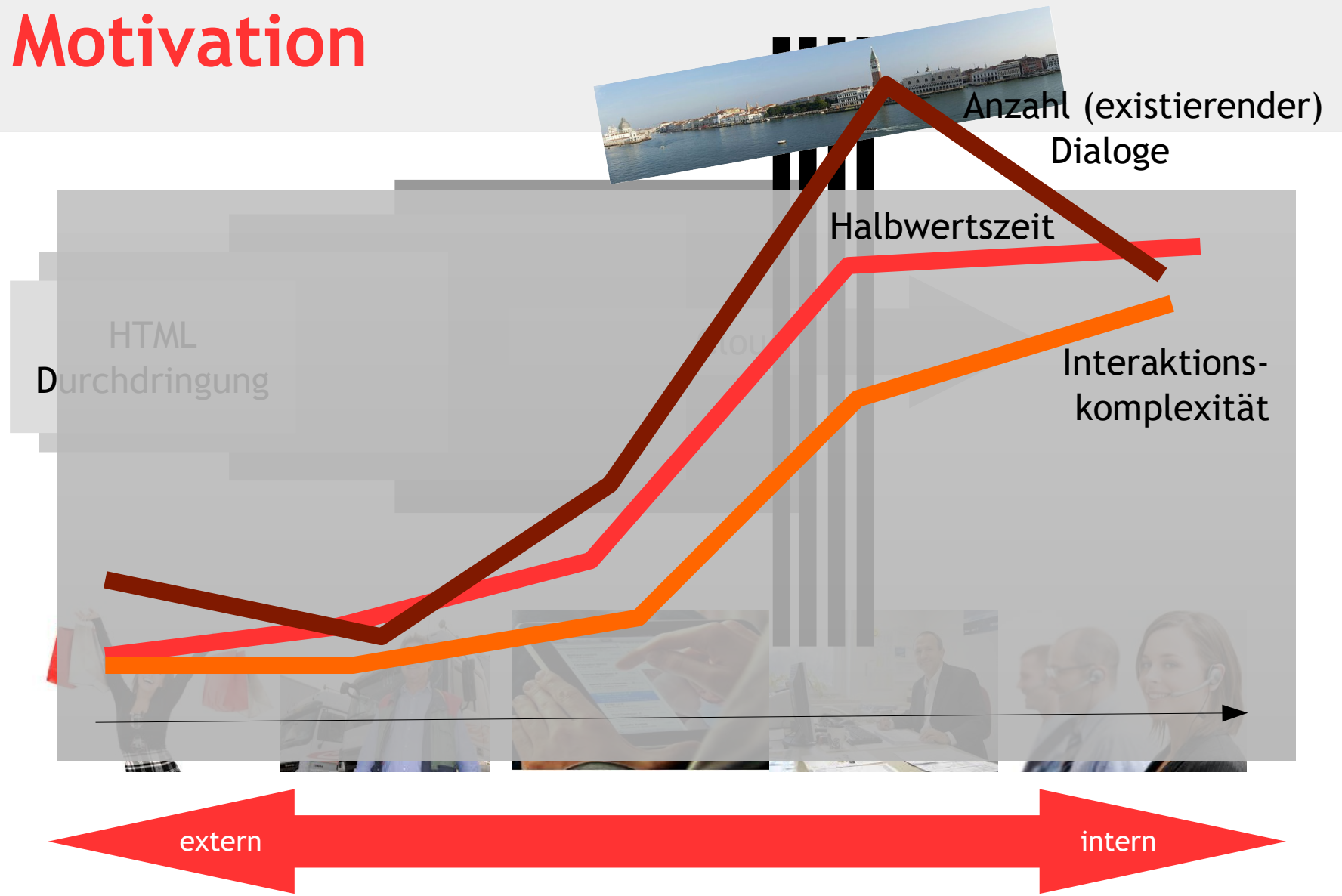


extern

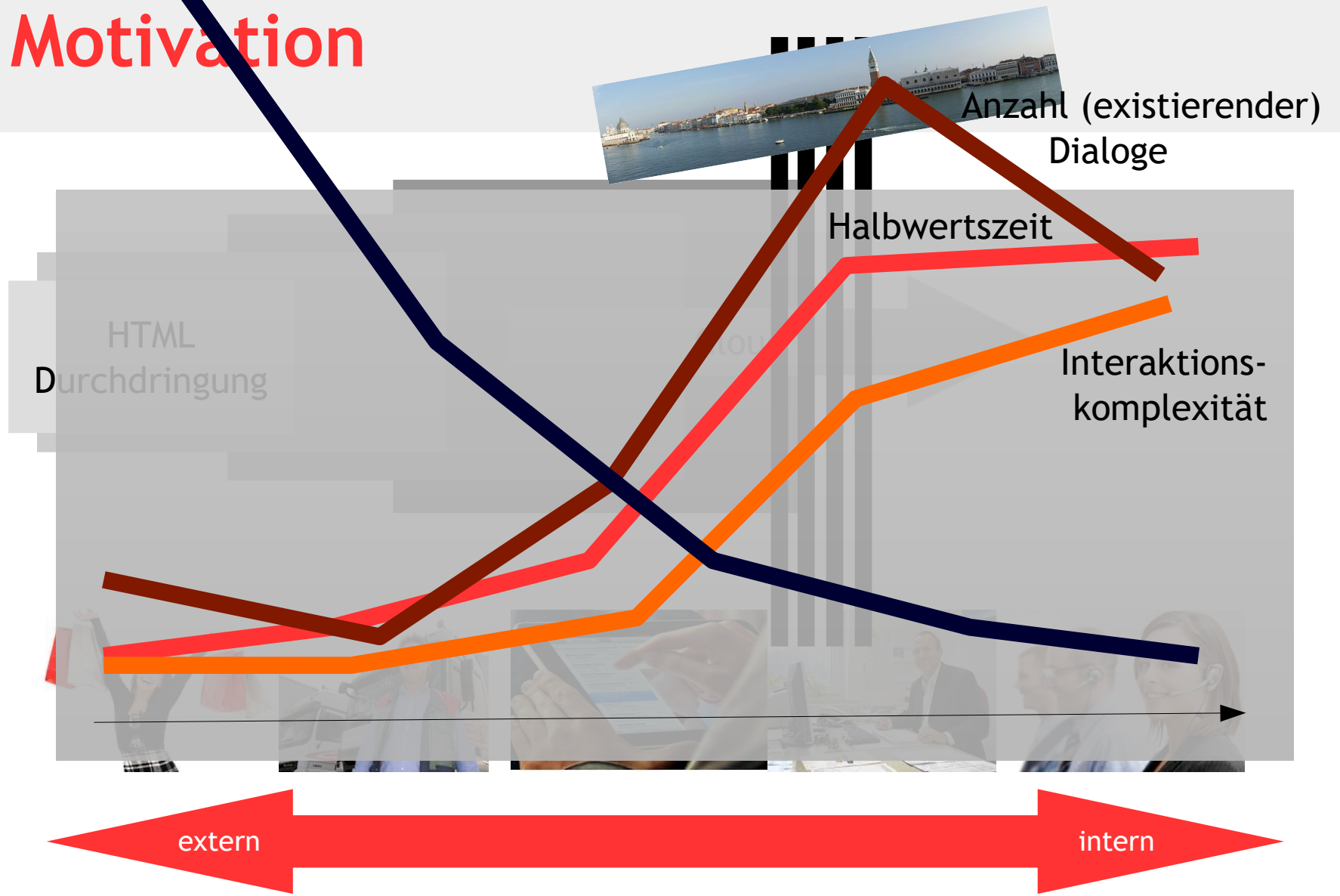
## KONTROLLVERLUST

intern

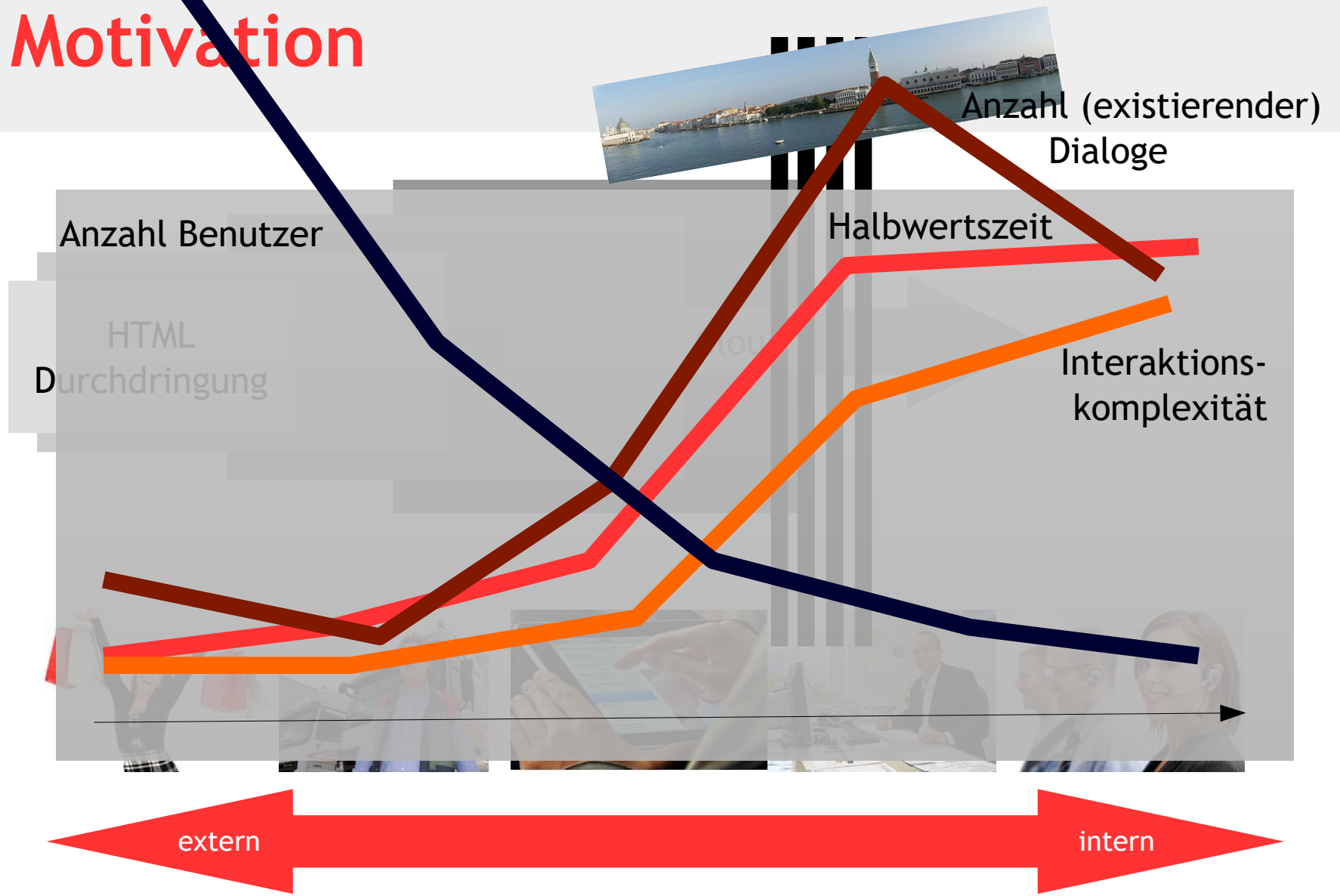
# Motivation



# Motivation

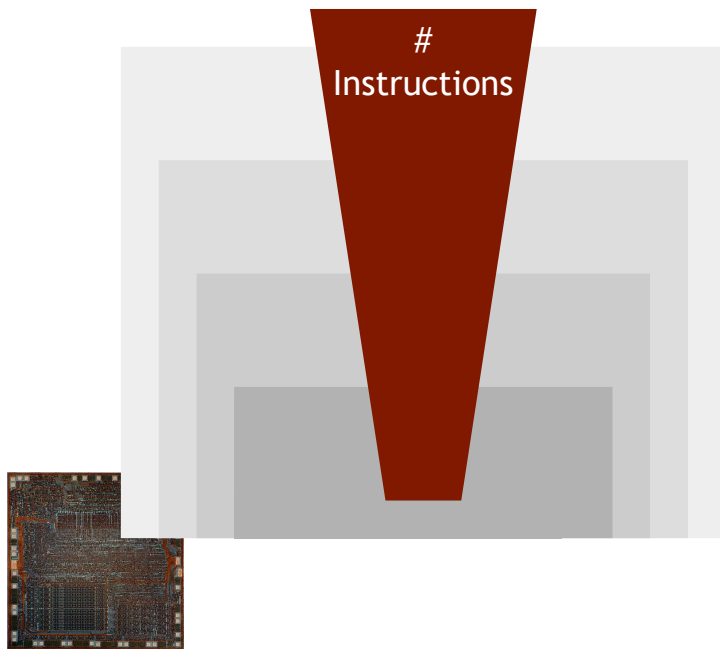


# Motivation

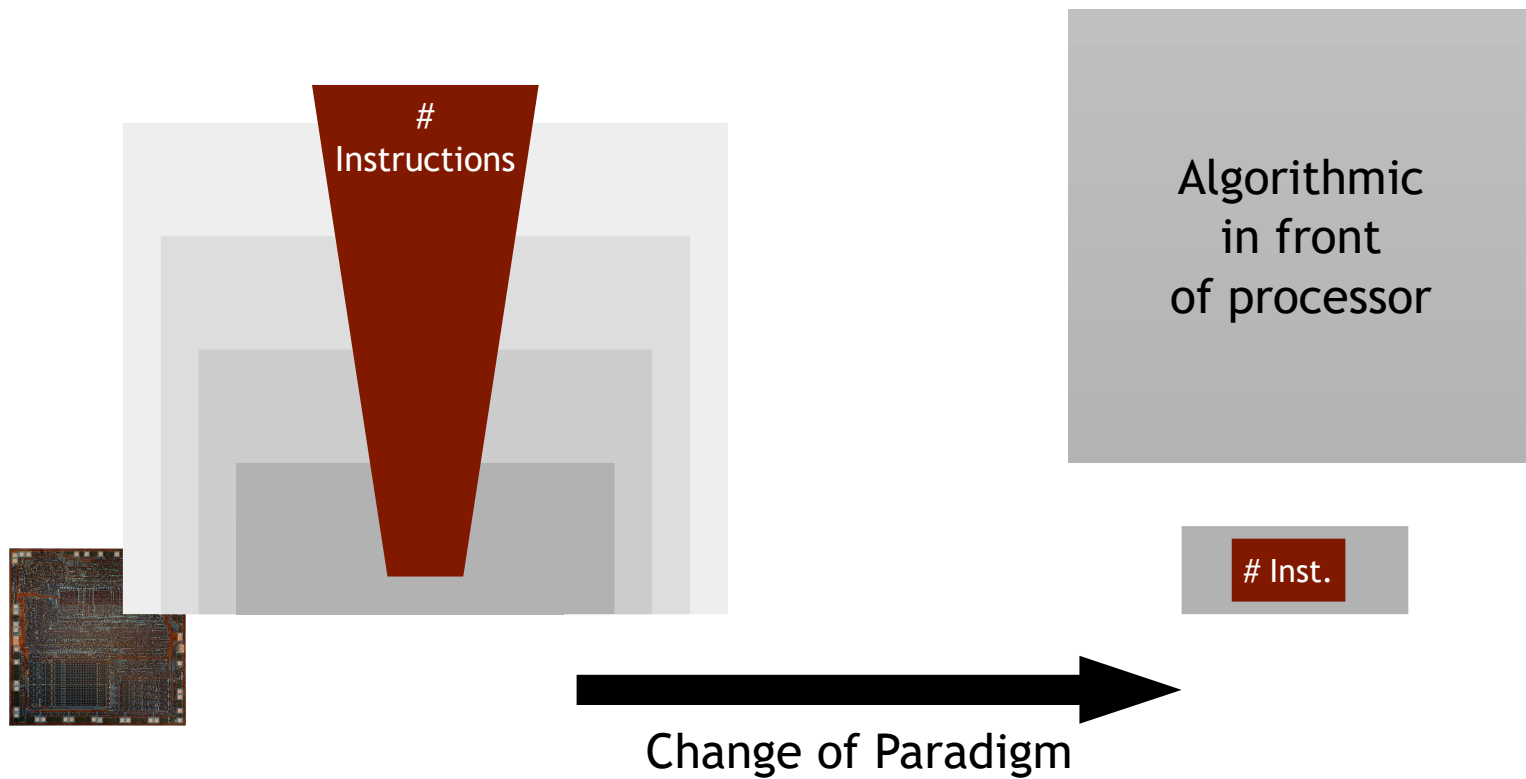


# Back to the 80s/90s

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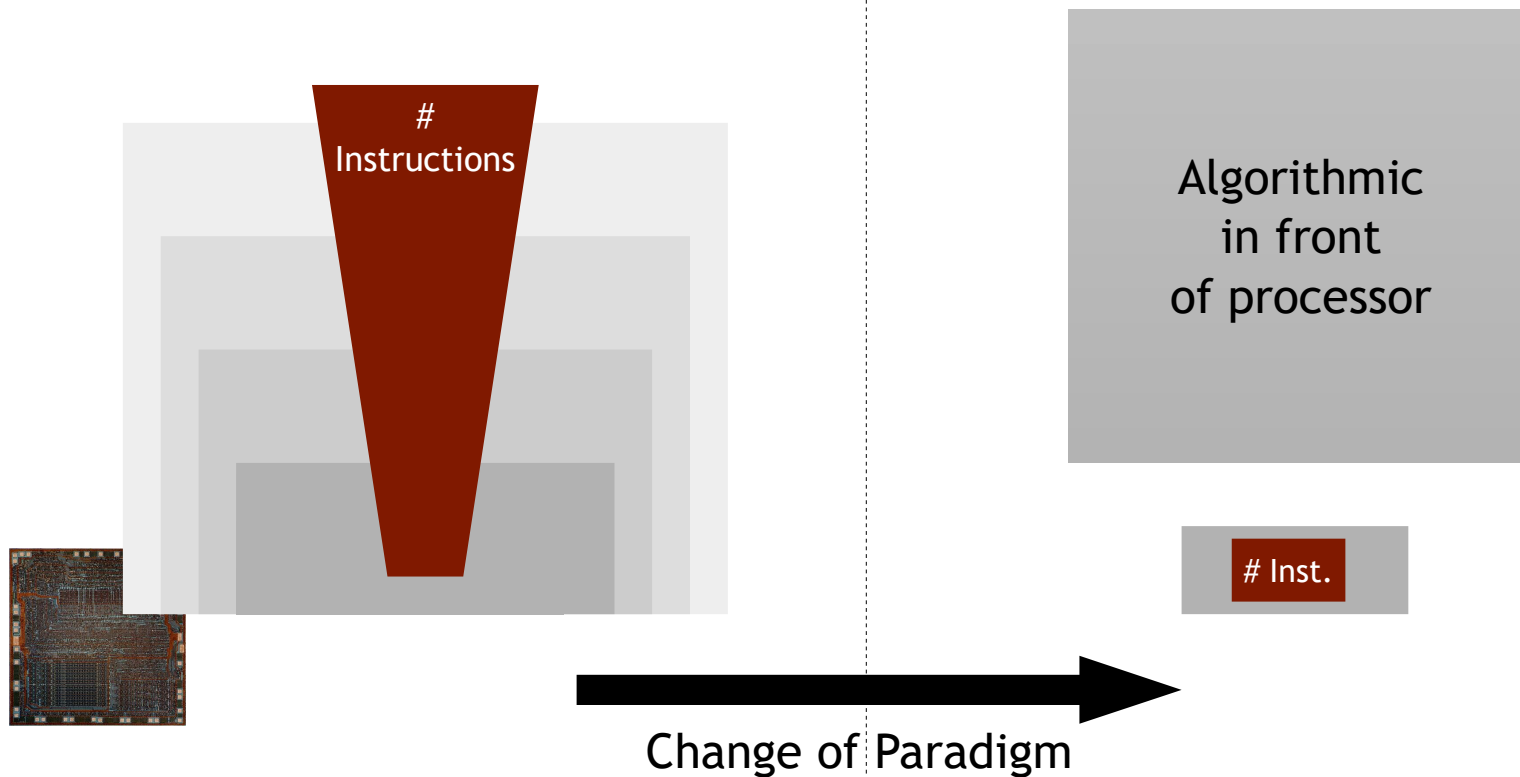




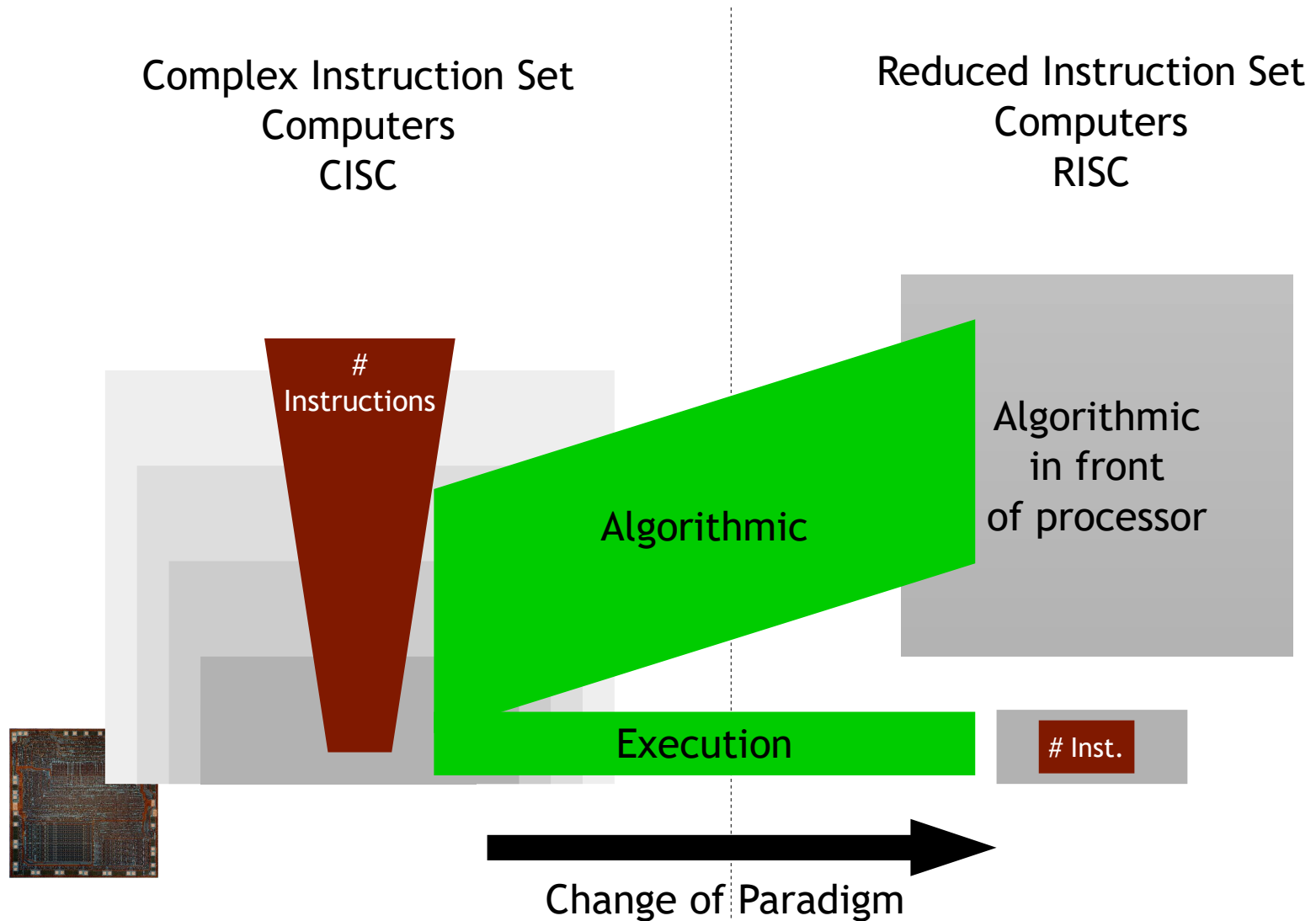
# Back to the 80s/90s

Complex Instruction Set  
Computers  
CISC

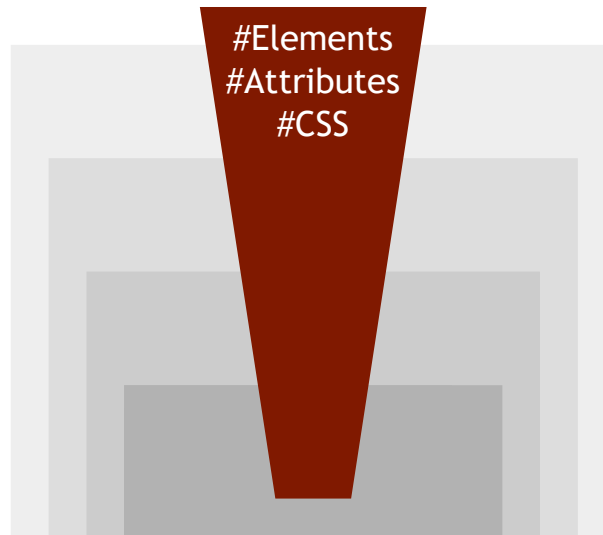
Reduced Instruction Set  
Computers  
RISC



# Back to the 80s/90s



# Browser History



# Browser History



#Elements  
#Attributes  
#CSS

# Browser History

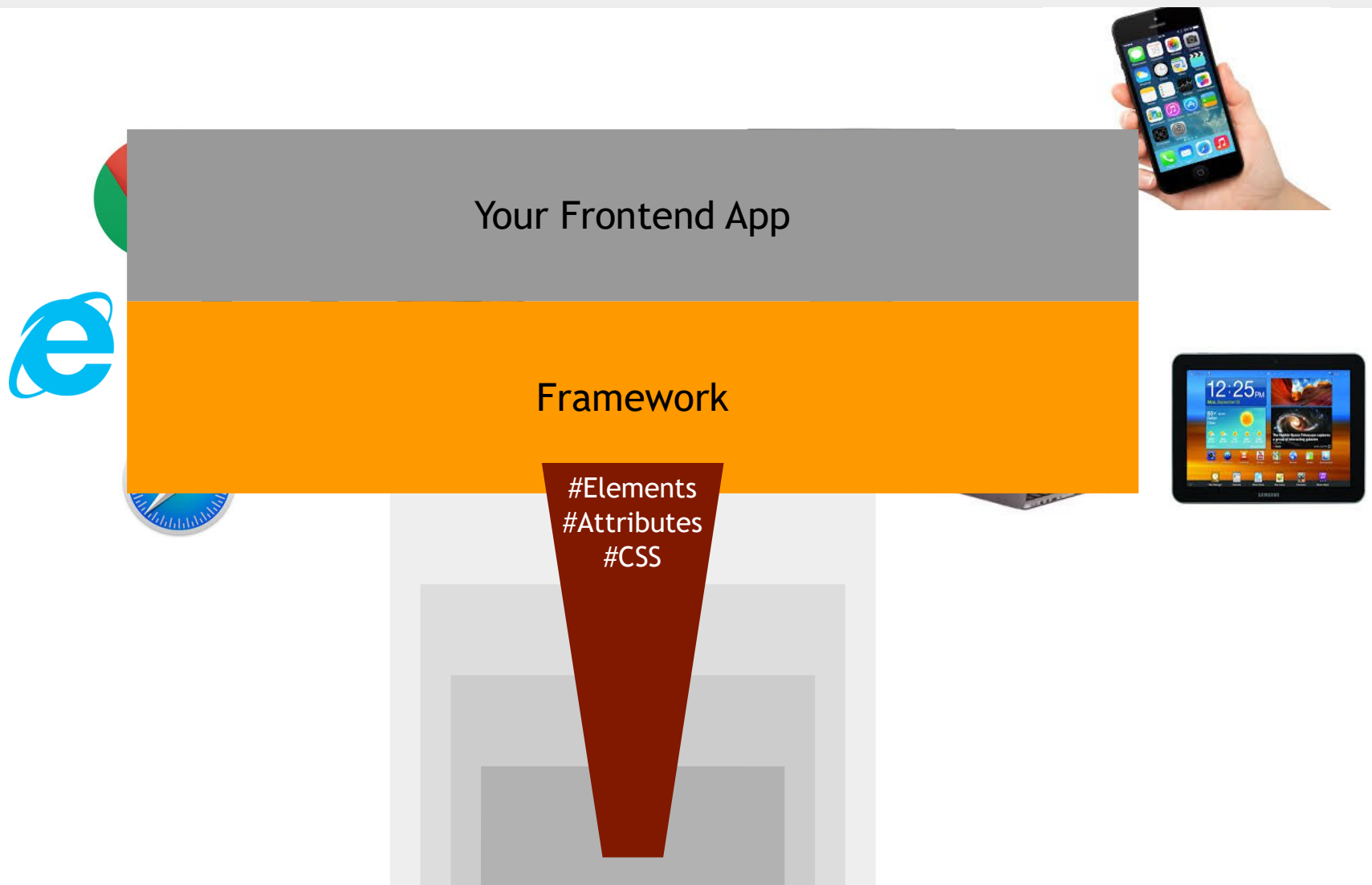
Suffering

„Zero Installation!“  
„...endless Maintenance“

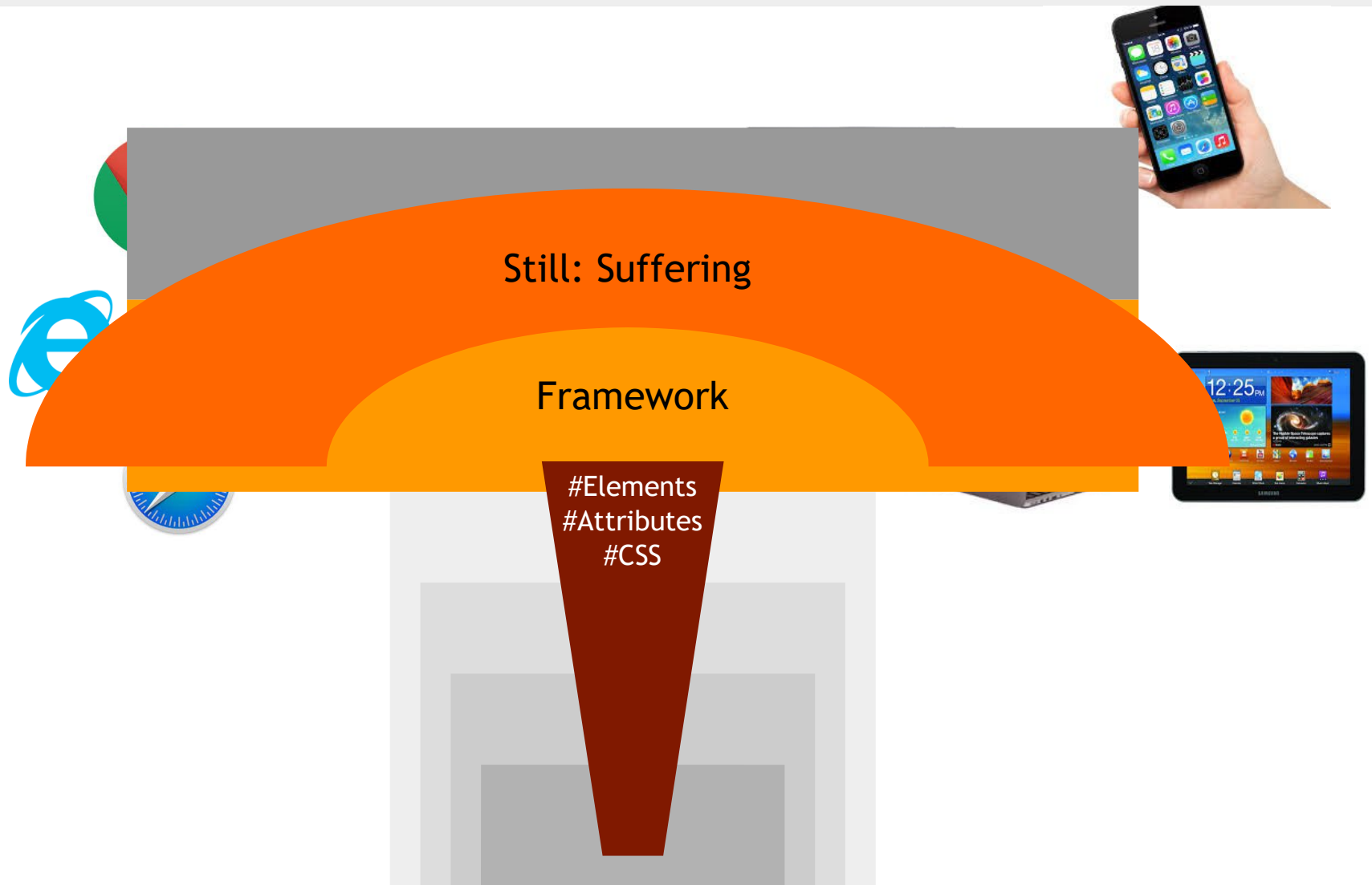
#Elements  
#Attributes  
#CSS



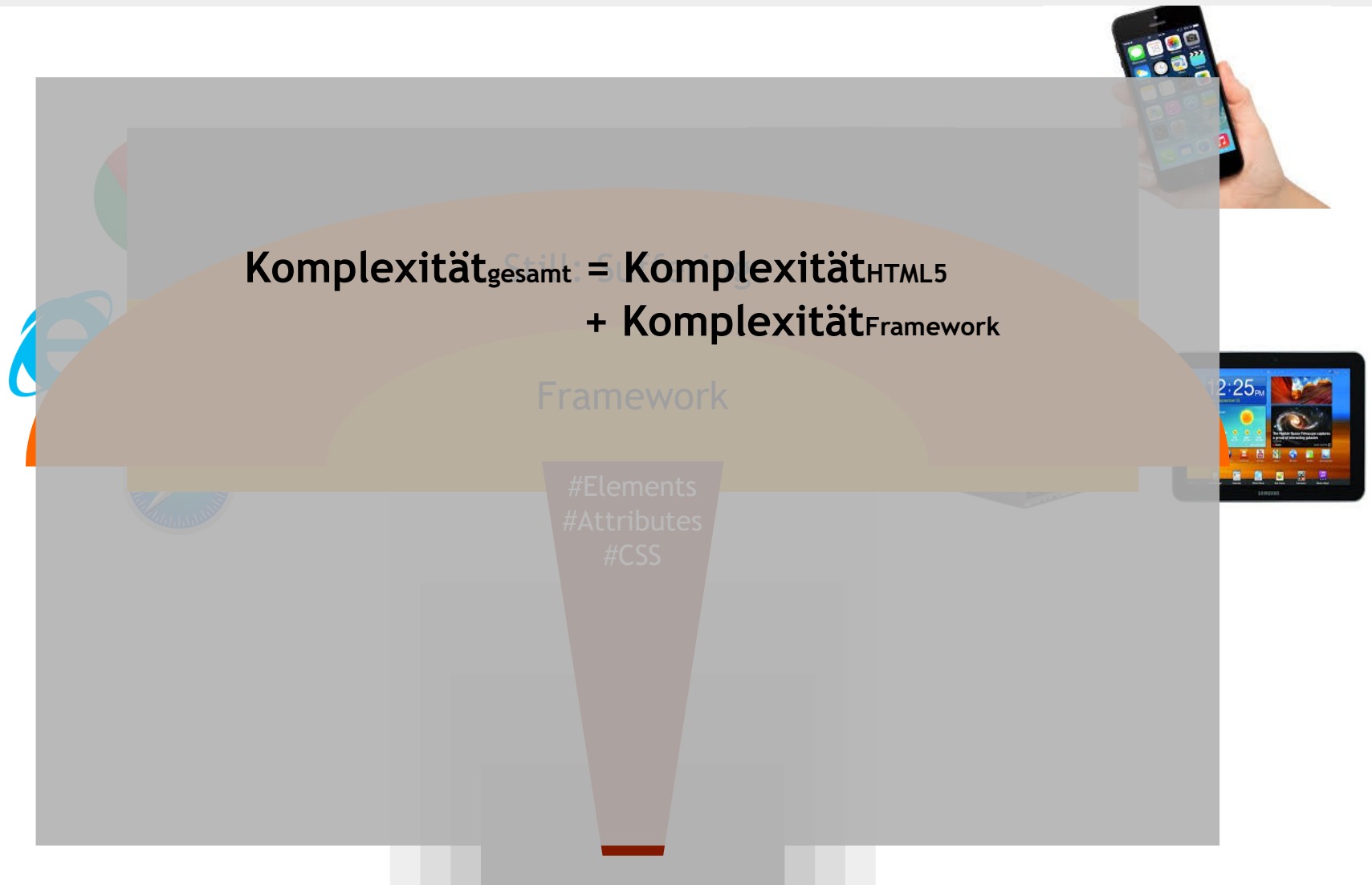
# Traditional Framework Approach



# Traditional Framework Approach

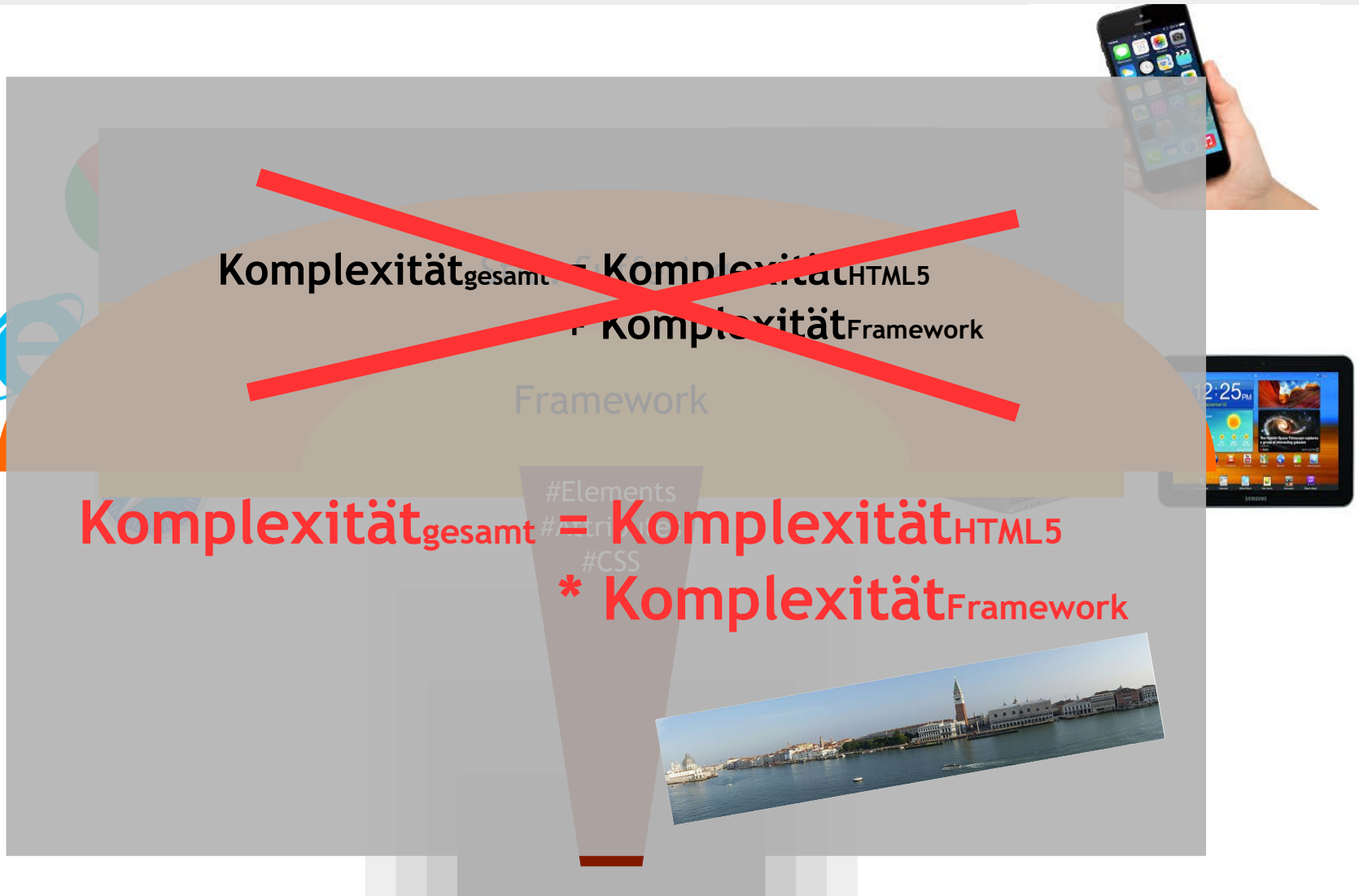


# Traditional Framework Approach



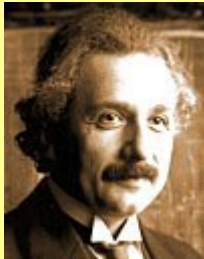


# Traditional Framework Approach

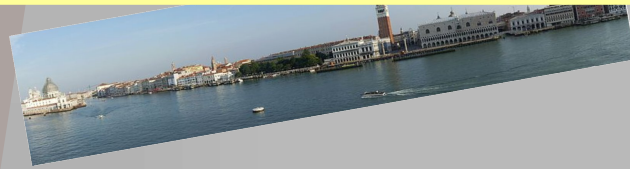


The image shows a hand holding a smartphone in the top right corner and a tablet displaying a desktop interface in the middle right. A large, semi-transparent grey shape is overlaid on the center, containing a diagram of a funnel. The funnel is wider at the top and tapers to a point at the bottom. The top of the funnel is labeled with the equation  $\text{Komplexität}_{\text{gesamt}} = \text{Komplexität}_{\text{HTML5}} + \text{Komplexität}_{\text{Framework}}$ . The bottom of the funnel is labeled with the equation  $\text{Komplexität}_{\text{gesamt}} = \text{Komplexität}_{\text{HTML5}} * \text{Komplexität}_{\text{Framework}}$ . A large red 'X' is drawn over the top part of the funnel. The funnel's body is labeled with the word 'Framework'. Below the funnel, there are some faint text elements: '#Elements', '#CSS', and '#CSS'. At the bottom of the funnel, there is a small image of a cityscape, likely Venice, with a prominent tower and buildings along the water.

# Traditional Framework Approach



**Probleme kann man niemals mit derselben Denkweise lösen,  
durch die sie entstanden sind.**





**What's about...**

**What's about...**

**...a Change of Paradigm?**

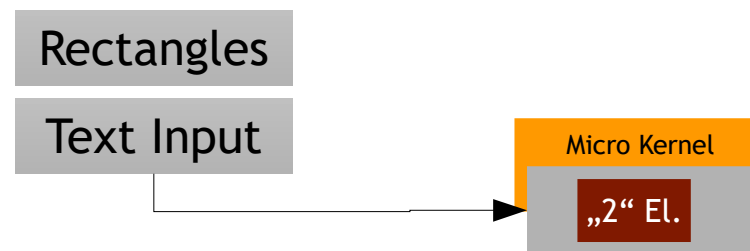
The screenshot displays the CaptainCasa RISC Client interface. The main window is titled 'CaptainCasa - RISC Client' and shows a URL of 'localhost:8080/demos/workplace.workplaceMetroFX.risc?ccstyle=defaulttrisc'. The interface is divided into several panels:

- Components Panel:** A sidebar on the left with a search icon and a list of components under 'New Functions'. The 'Basic Controls' category is selected, showing sub-items like Label Control, Field Control, Invokers, Combo Box and List, Text Input/Output, Check Box & Radio Button, Images, Value Representation, Enabled/ Disabled, Menus, Hot Keys, Structure Components, File Up/Download, Drag & Drop, Statusbar, Open Street Map, Client Clock, and Scheduling. Below this are sections for 'Containers', 'Grids & Trees', 'General', and 'Add-ons'.
- Grid with Details Panel:** The central panel shows a 'Grid with Details' component. It has tabs for 'Demo', 'Layout XML', and 'Server side Java Code'. The 'Demo' tab is active, displaying a table of articles with columns: Article Id, Unit of Measure, Stock Area, and Supp. The row with Article Id 168484 is selected. Below the grid, there are input fields for 'Id', 'Description', 'Unit of Measure', 'Supplier', and 'Stock Area', each with a dropdown menu. To the right of the grid, there is a text area containing instructions and code snippets explaining the grid's behavior and how to implement server-side coding.
- Basic Controls Panel:** A panel on the right showing various UI controls: a text field with 'field', a checkbox with 'Text aside a checkbox', radio buttons for 'Left' (selected) and 'Right', and a text area with 'textarea' and 'line2'.
- Simple Example Panel:** A panel at the bottom right showing a 'Pivot Tree Mode' with 'Normal Tree' selected. It displays a tree view on the left with 'Total' and 'Austria' (containing 'Ort 4', 'Ort 3', 'Ort 2', 'Ort 1', 'Ort 0') and a pivot table on the right with columns for 'Food' and 'Non Food'.

Which are the basic elements that „any“ user interface can be built with?

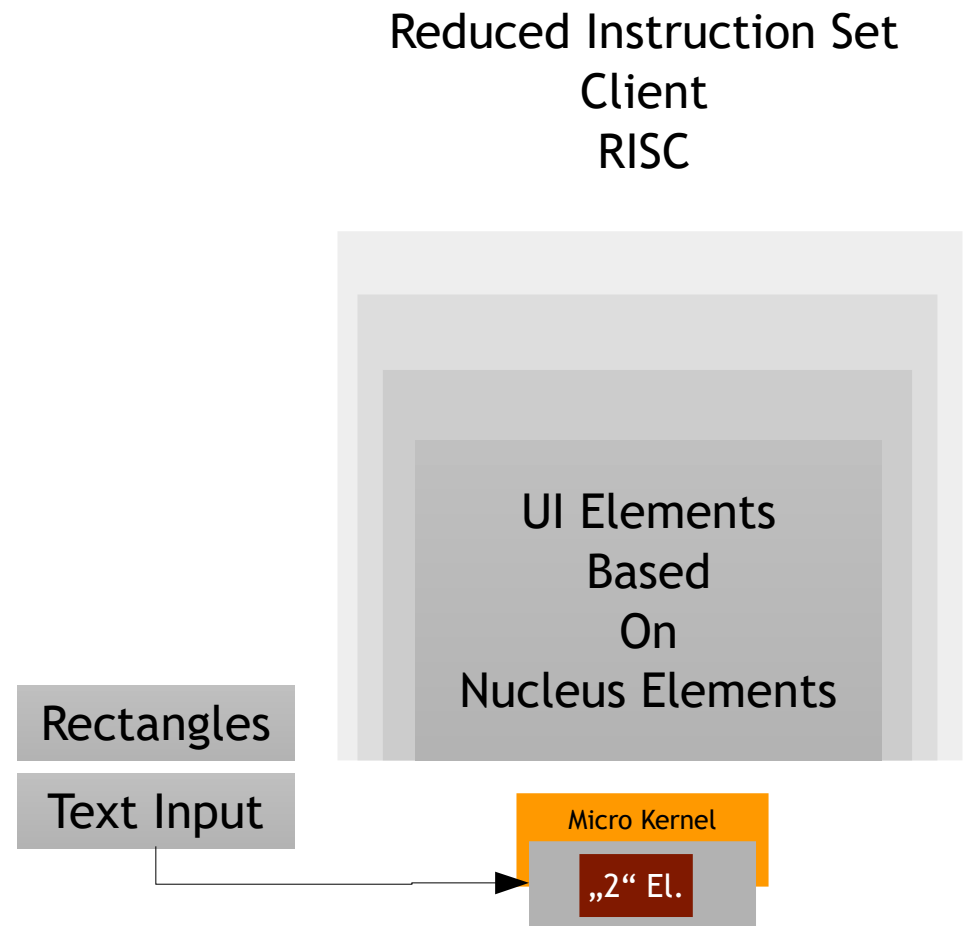


# RISC Browser Architecture

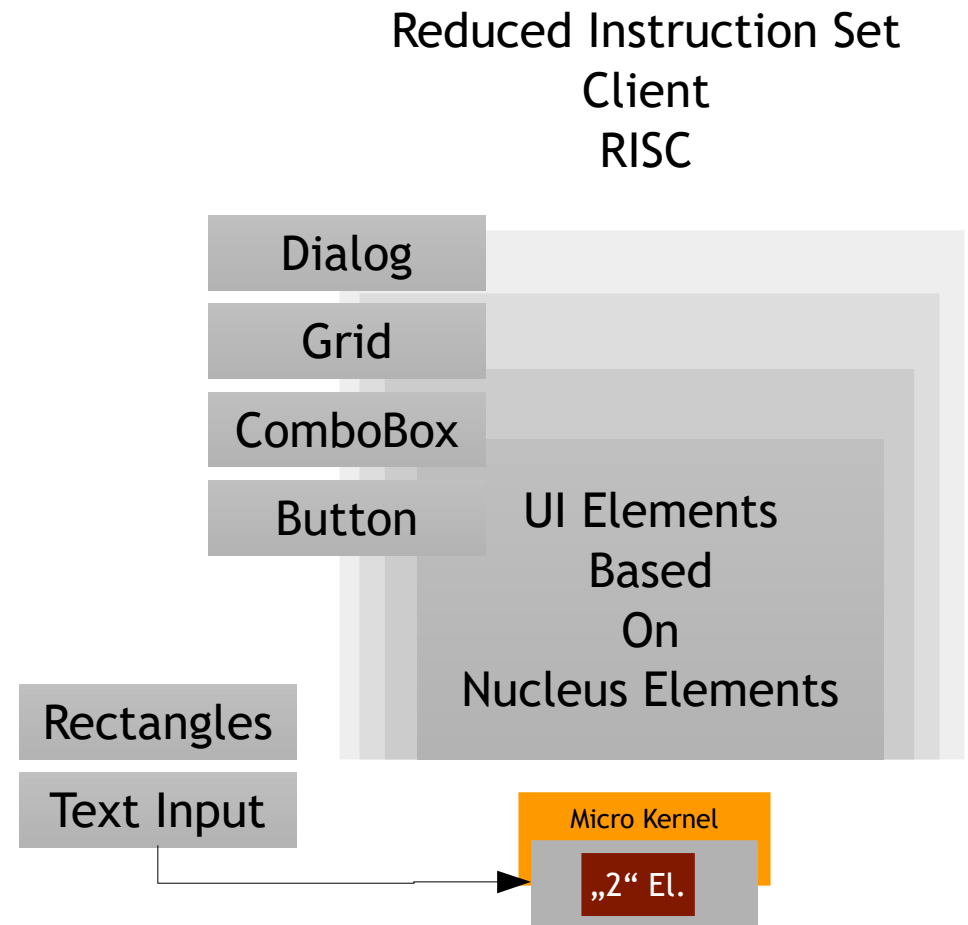




# RISC Browser Architecture

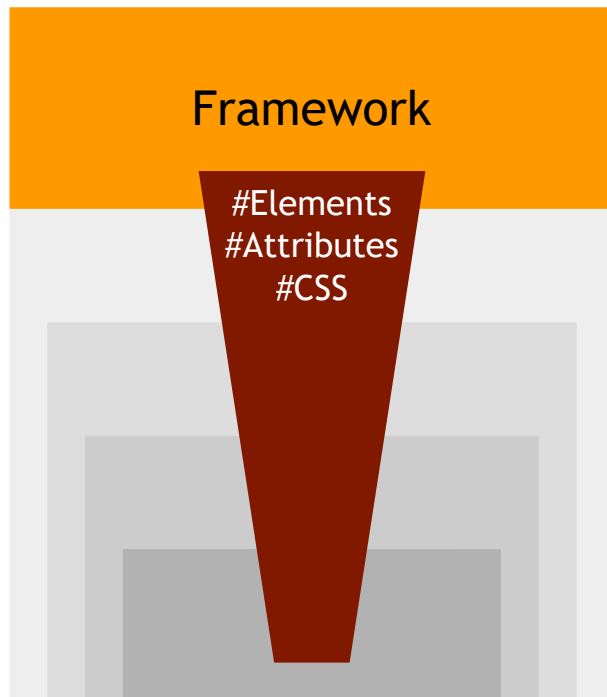


# RISC Browser Architecture

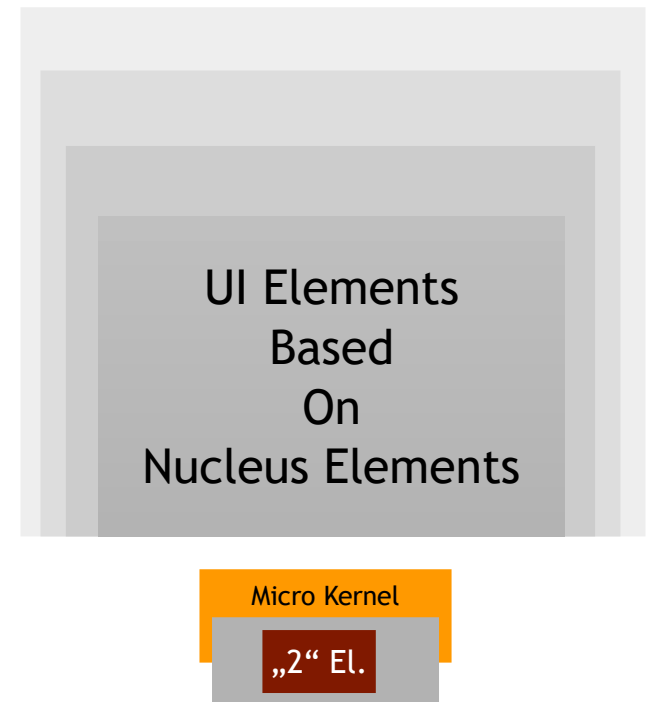


# RISC Browser Architecture

Complex Instruction Set  
Client  
CISC



Reduced Instruction Set  
Client  
RISC

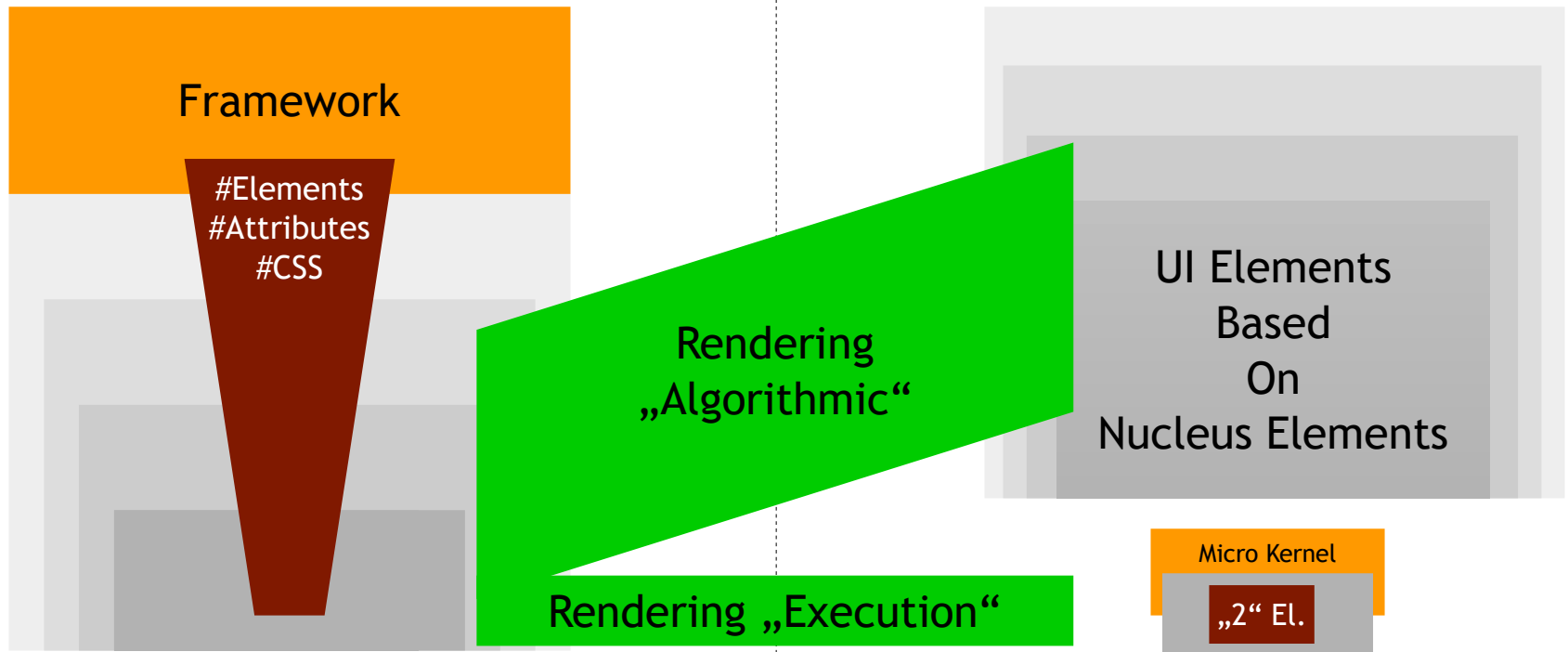


Change of Paradigm

# RISC Browser Architecture

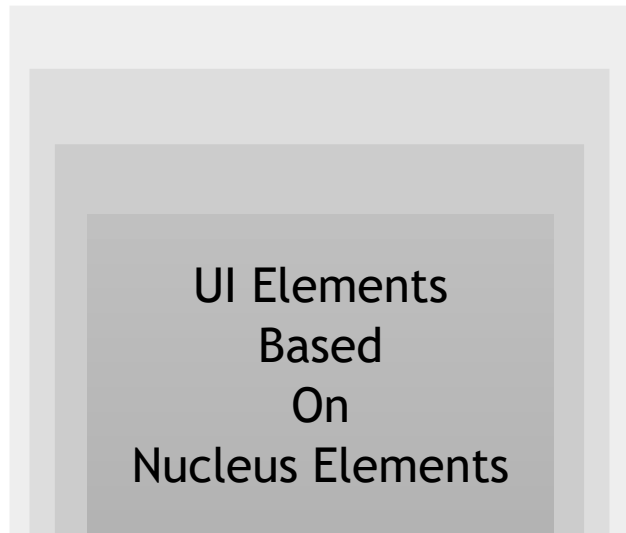
Complex Instruction Set  
Client  
CISC

Reduced Instruction Set  
Client  
RISC



# RISC Browser Architecture

## ADVANTAGES

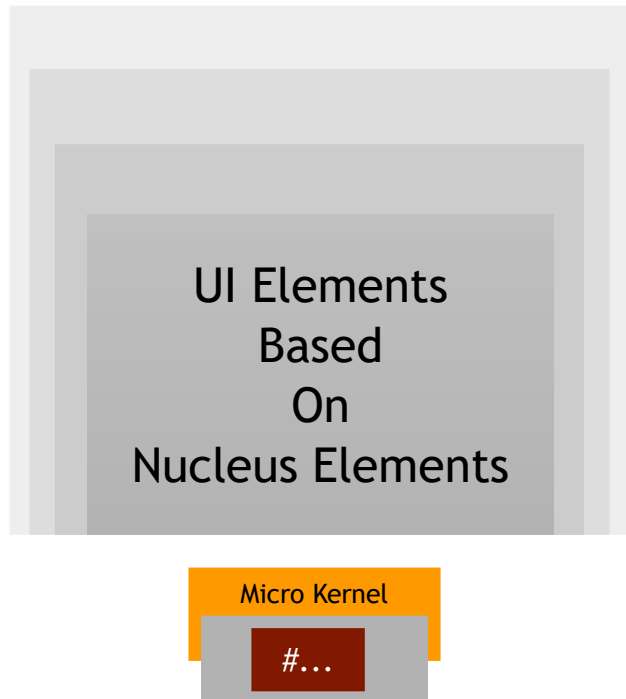


- Browser Incompatibility is no issue.
  - The nucleus' size is 1000 lines of Javascript, currently!
- Performance on current browsers is excellent.
- Layouting is not bound to HTML limits.

# RISC Browser Architecture

## ADVANTAGES

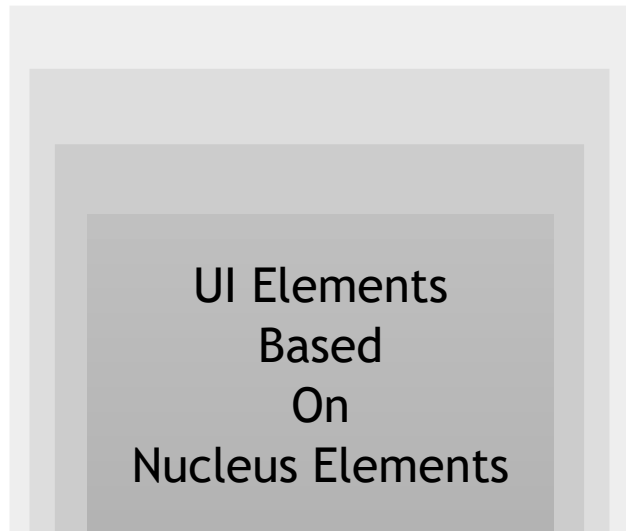
- Decoupling from HTML
- Regain of Control



# RISC Browser Architecture

## CHALLENGES

- Adaptations required
  - Accessibility support
  - Testing frameworks



# Some Comparison

Comparing the DOM Tree  
of a Master-Detail Scenario



# 1. SAP UI5 - Master-Detail-Demo

sap.m

Master-Detail

Best-practice starting point for a master-detail app

The screenshot shows a web browser displaying a SAP UI5 Master-Detail application. The browser window title is "Master-Detail - Mozilla Firefox". The address bar shows the URL: "https://sapui5.netweaver.ondemand.com/test-resources/sap/ui/templateapps/demokit/master-detail/w". The application interface includes a search bar with "Suchen" and a list of objects. The selected object, "Object 11", is shown in detail. The developer tools (Inspector) are open, showing the HTML structure of the selected element. The HTML code includes a table structure with a tbody, tr, and td, and a span element. The CSS styles are visible on the right side of the developer tools.

HTML Elements:  
table, tbody, tr, td, span, div,  
section, header, footer, ul, li, a, button, form

Layout:  
by table, by div, by style, by Javascript

Object	UoM
Object 1	81.00
Object 10	106.00
Object 11	61.00
Object 12	2006.00
Object 13	256.00
Object 14	234.00
Object 15	34.00

```
<tbody id="...">  
<tr id="...">  
<td id="..._item1-application-MasterDetail-display-component---detail--lineItemsList-0_cell10" class="sapMListTblCell" role="gridcell" aria-describedby="__text5" style="text-align:left">  
<div id="..._identifier0-application-MasterDetail-display-component---detail--lineItemsList-0" class="sapMObjectIdentifier" data-sap-ui="..._identifier0-application-MasterDetail-display-component---detail--lineItemsList-0" aria-labelledby="__text5">  
<div class="sapMObjectIdentifierTitle">  
<div class="sapMObjectIdentifierIcons"></div>  
<div id="..._identifier0-application-MasterDetail-display-component---detail--lineItemsList-0-title" class="sapMObjectIdentifierTitle">  
<span id="..._text11" class="sapMText sapMTextMaxWidth sapUISelectable" data-sap-ui="..._text11" style="text-align:left">Line Item 227</span>  
</div>  
</div>  
</td>  
</tr>  
</tbody>
```

## 2. GWT - List-Demo

Google Web Toolkit  
Showcase of Features

Cell Table

Do you want to display large amounts of data in your application? Use CellTable to render large amounts of data.

First Name	Last Name	Category
<input type="checkbox"/>	Hazel	Rodriguez
<input type="checkbox"/>	Regina	
<input type="checkbox"/>	Jose	
<input type="checkbox"/>	Daniel	
<input type="checkbox"/>	Jesse	
<input type="checkbox"/>	Lloyd	
<input type="checkbox"/>	Alexander	
<input type="checkbox"/>	Frances	
<input type="checkbox"/>	Marjorie	
<input type="checkbox"/>	Diane	
<input type="checkbox"/>	Denise	
<input type="checkbox"/>	Josephine	
<input type="checkbox"/>	Maria	
<input type="checkbox"/>	Kevin	
<input type="checkbox"/>	Kelly	

HTML Elements:  
table, tbody, tr, td, colgroup, col, span, div, select, option, img, a

Layout:  
by table, by div, by style, by Javascript

# 3. ReactJS

The screenshot shows a web browser window with the URL `www.bu.edu/housing/assignments/selection/availability/`. The page content includes a filter bar with a '+ Filter Rooms...' button and a section for 'Bay State Rd Dormitories' with a sub-filter 'Filter Buildings' and a list of locations: '+79 Bay State Road', '+81-83 Bay State Road', '+135 Bay State Road', and '+162-164 Bay State Road'. A developer console is open at the bottom, displaying the HTML structure of the page, including a table with columns for location and room type. The table content is partially obscured by a grey overlay.

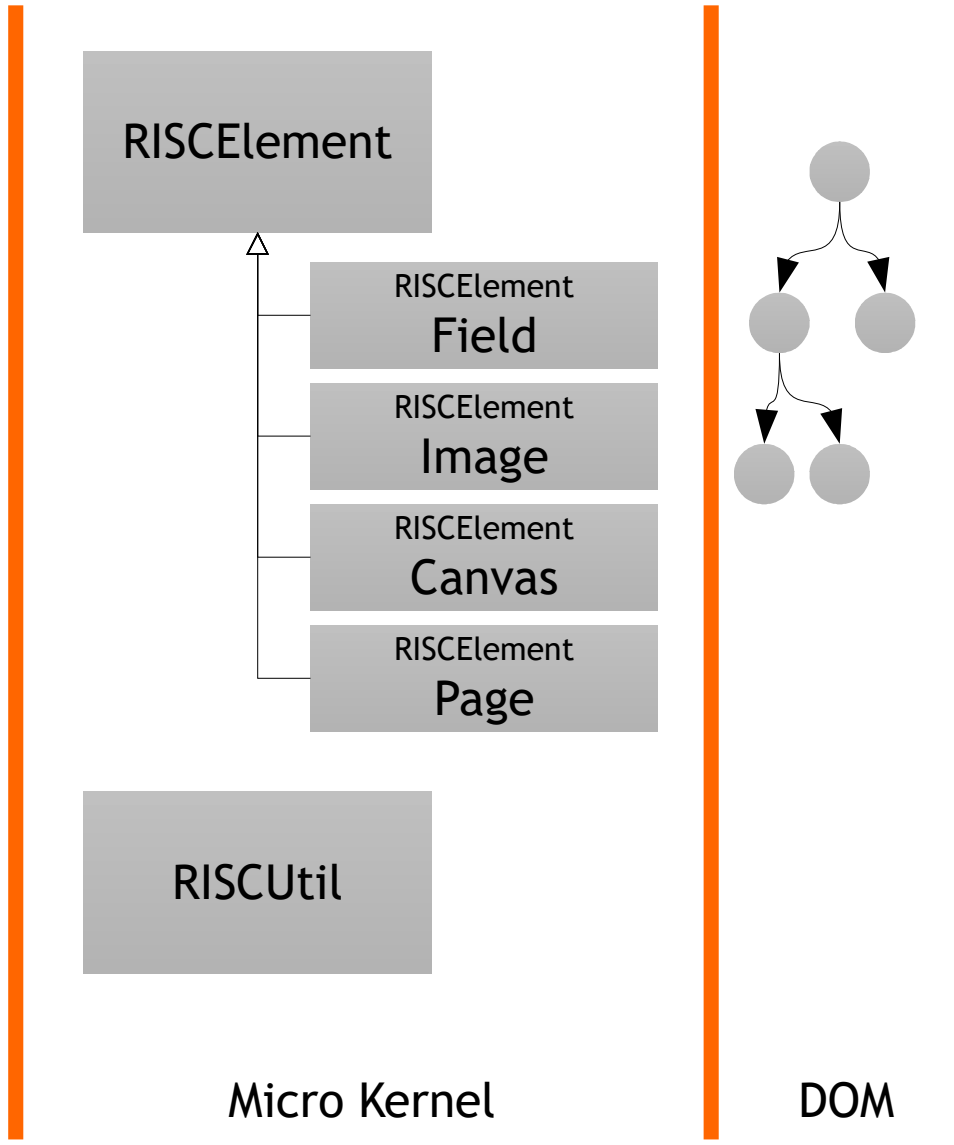
HTML Elements:  
table, tbody, tr, th, td, thead, div, h2, h3, p,  
span, ul, li, br, label, a

Layout:  
by table, by div, by style, by Javascript



# For JavaScript Lovers...

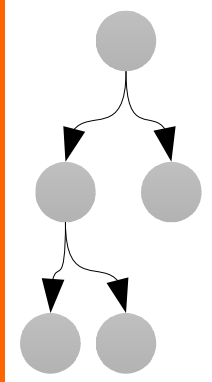
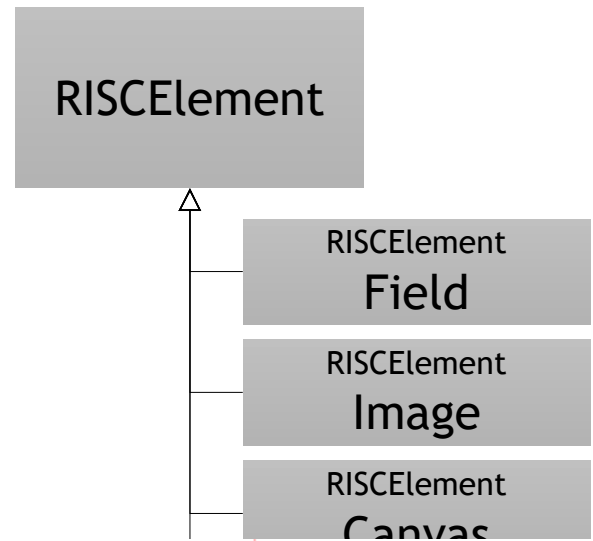




```

function RISCElement(asPrototype)
{
  this.init_RISCElement = function()
  {
    this.m_elementType = RISCELEMENTTYPE_element;
    this.m_dome = document.createElement("div");
    this.m_dome.id = RISCElementIdCounter++;
    this.m_dome.m_riscElement = this;
    this.m_dome.style.boxSizing = "border-box";
    this.m_dome.style.position = "absolute";
    this.m_dome.style.overflow = "hidden";
    this.setBounds = this.setBounds_RISCElement;
    this.m_dome.className = "riscelement";
  };
  this.RISCdestroy = function()
  {
    this.m_dome.m_riscElement = null;
    this.m_dome = null;
  };
  ...
  this.addSubElement = function(subElement) { this.m_dome.appendChild(subElement.getDome()); };
  this.removeSubElement = function(subElement) { this.m_dome.removeChild(subElement.getDome()); };
  this.setFontSize = function(value) {this.m_dome.style.fontSize = value;};
  this.setFontFamily = function(value) {this.m_dome.style.fontFamily = value;};
  this.setFontWeight = function(value) {this.m_dome.style.fontWeight = value;};
  this.setFontStyle = function(value) {this.m_dome.style.fontStyle = value;};
  ...
}

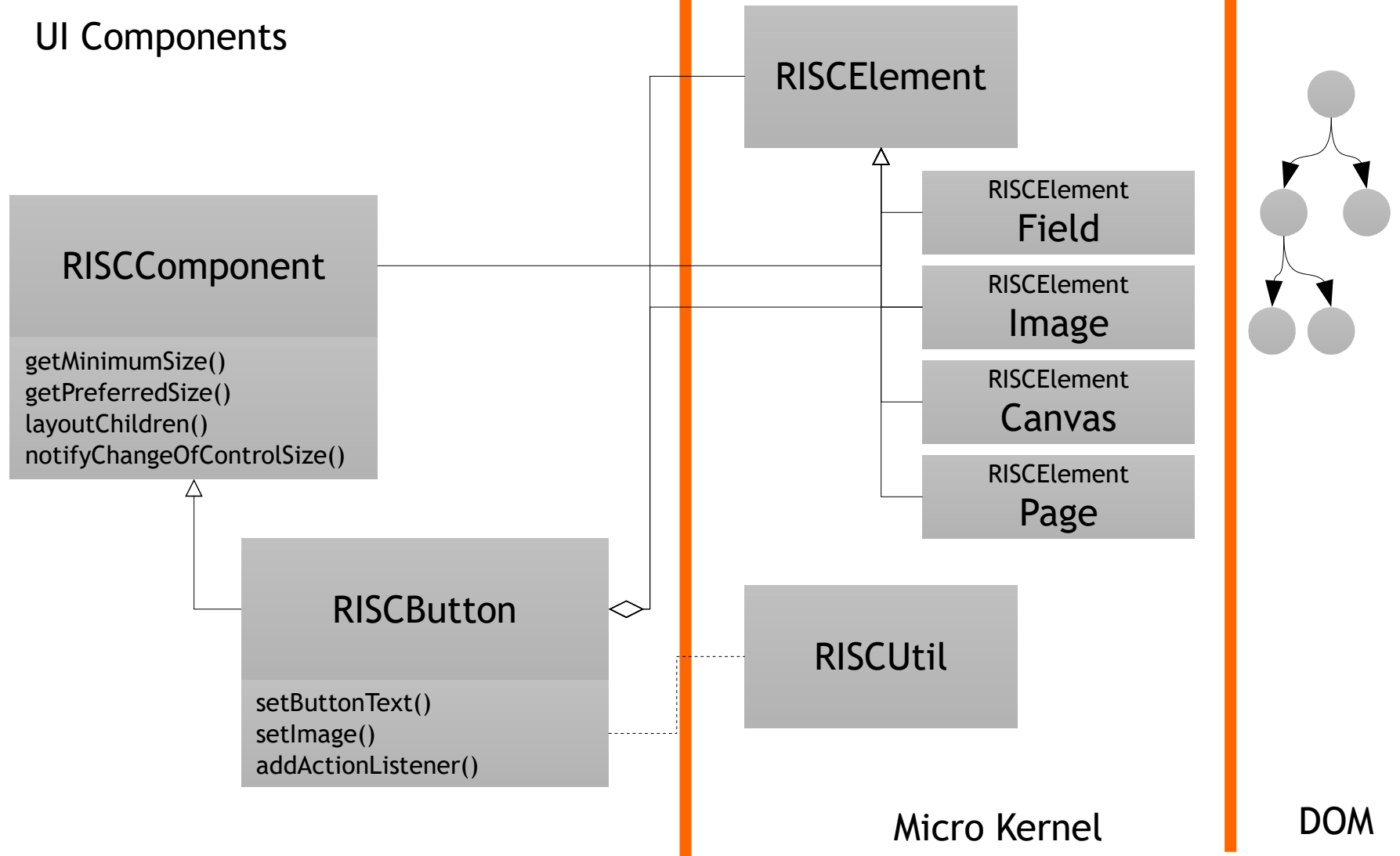
```



Micro Kernel

DOM

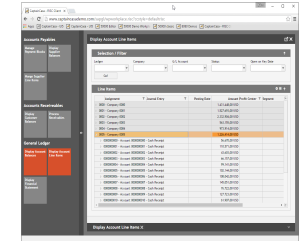
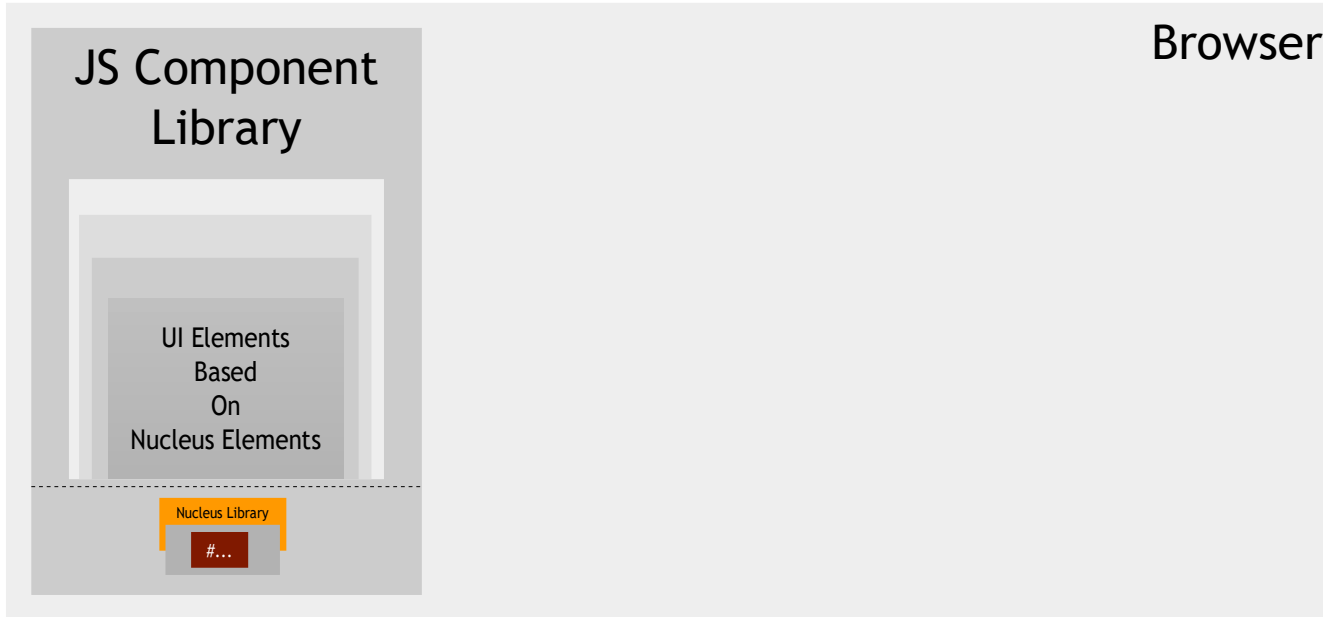
### UI Components



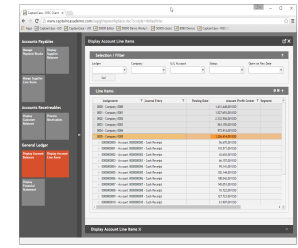
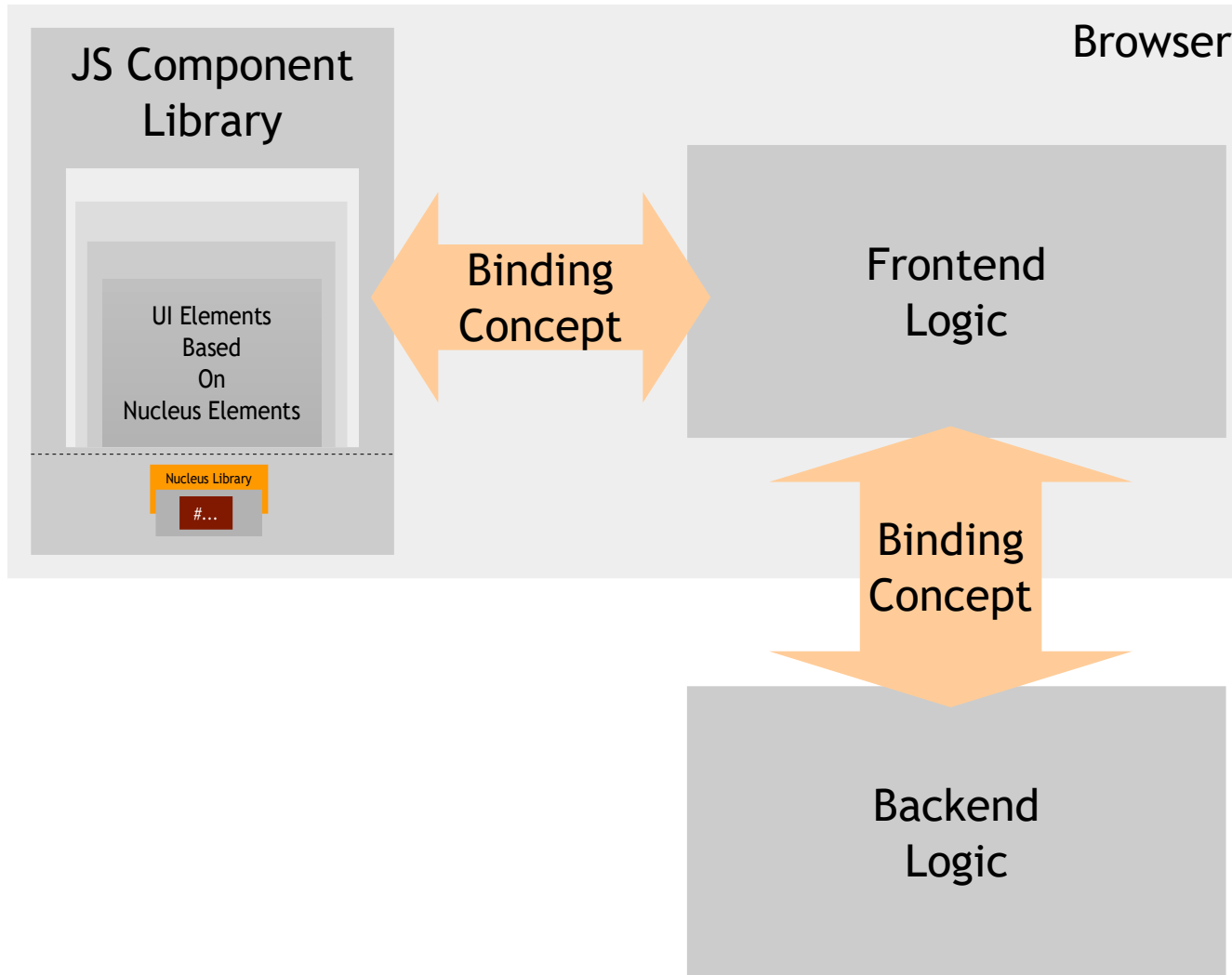


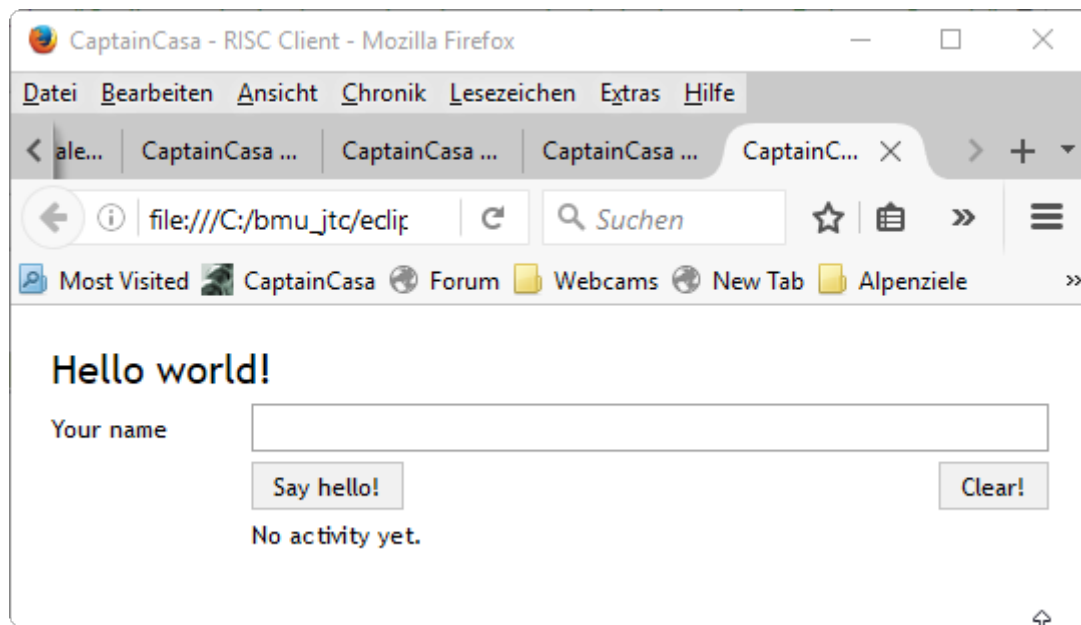
# Big(ger) Picture

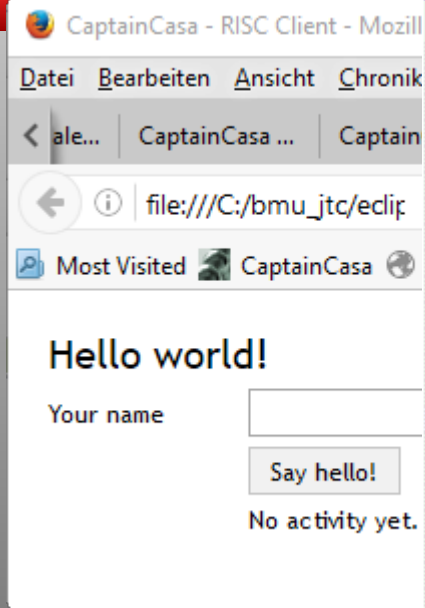
# Big(ger) Picture



# Big(ger) Picture







```

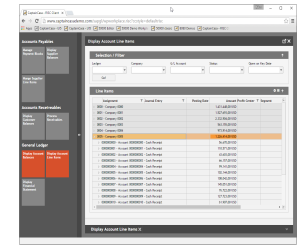
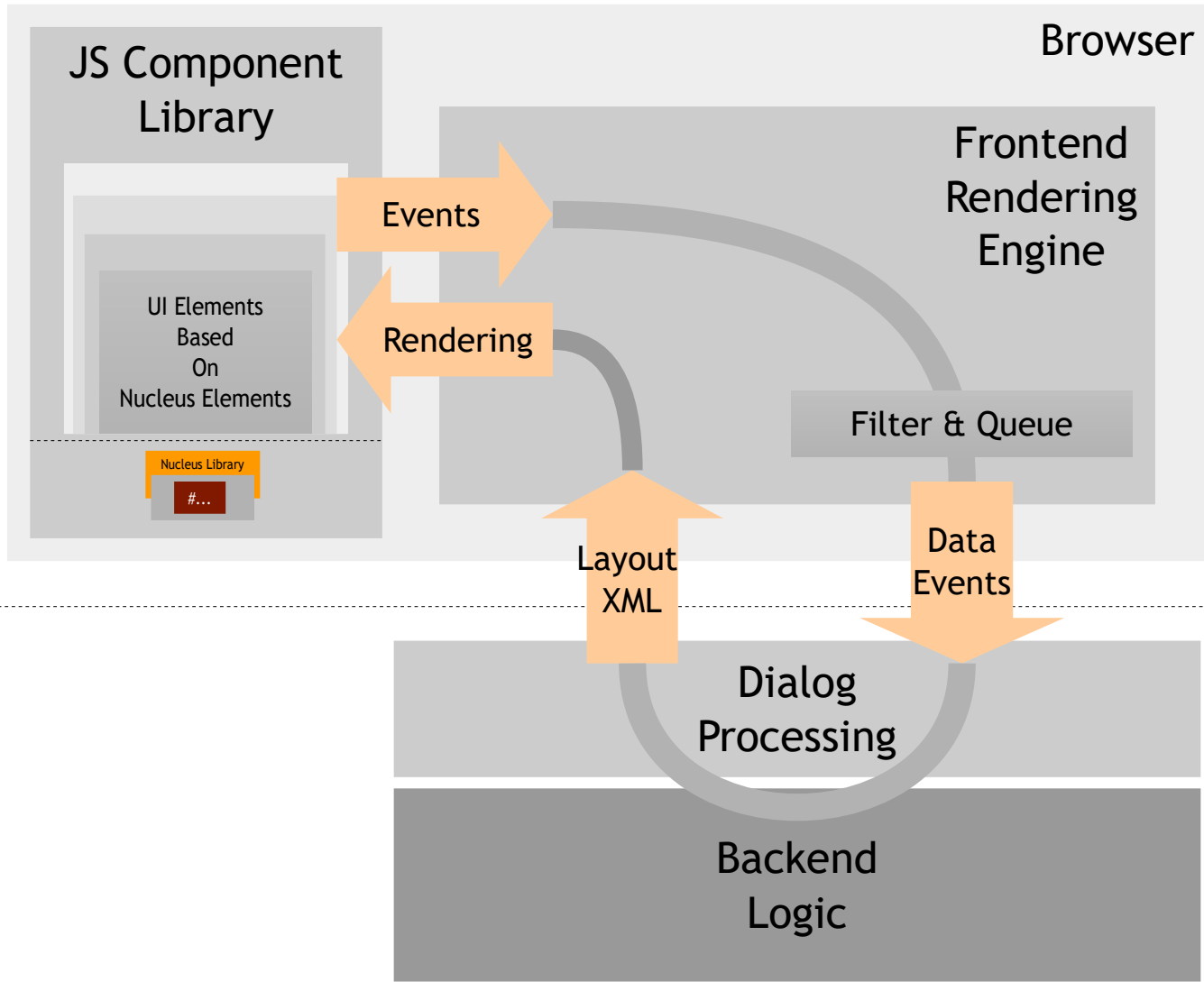
var m_nameField;
var m_outputLabel;
function initializeApplication()
{
    var table = new RISCFlexTable()
        .setRowDistance(5)
        .setPadding(new RISCPadding(20,20,20,20));
    {
        var row = new RISCFlexTableRow();
        table.addChild(row);
        var label = new RISCLabel()
            .setLabelText("Hello world!")
            .setFont(new RISCFont(null,20));
        row.addChild(label);
    }
    {
        var row = new RISCFlexTableRow();
        table.addChild(row);
        var label = new RISCLabel()
            .setLabelText("Your name")
            .setPrefWidth(100);
        row.addChild(label);
        m_nameField = new RISCField()
            .setPrefWidth(-100)
            .setPercentageMinWidth(200);
        row.addChild(m_nameField);
    }
    {
        var row = new RISCFlexTableRow();
        table.addChild(row);
        var distance = new RISCPane()
            .setPrefWidth(100);
        row.addChild(distance);
        var button = new RISCButton()
            .setButtonText("Say hello!")
            .addActionListener(function(name,riscEvent) {_reactOnHelloButtonAction();});
        row.addChild(button);
        distance = new RISCPane()
            .setPrefWidth(-100);
        row.addChild(distance);
        button = new RISCButton()
            .setButtonText("Clear!")
            .addActionListener(function(name,riscEvent) {_reactOnClearButtonAction();});
        row.addChild(button);
    }
    {
        var row = new RISCFlexTableRow();
        table.addChild(row);
        var distance = new RISCPane()
            .setPrefWidth(100);
        row.addChild(distance);
        m_outputLabel = new RISCLabel()
            .setLabelText("No activity yet")
            .row.addChild(m_outputLabel);
    }
    return table;
}

function _reactOnHelloButtonAction()
{
    var text = m_nameField.getValue();
    if (text != null && text.length > 0)
        m_outputLabel.setLabelText("Hello " + text + "!");
    else
        m_outputLabel.setLabelText("Please define a name!");
}

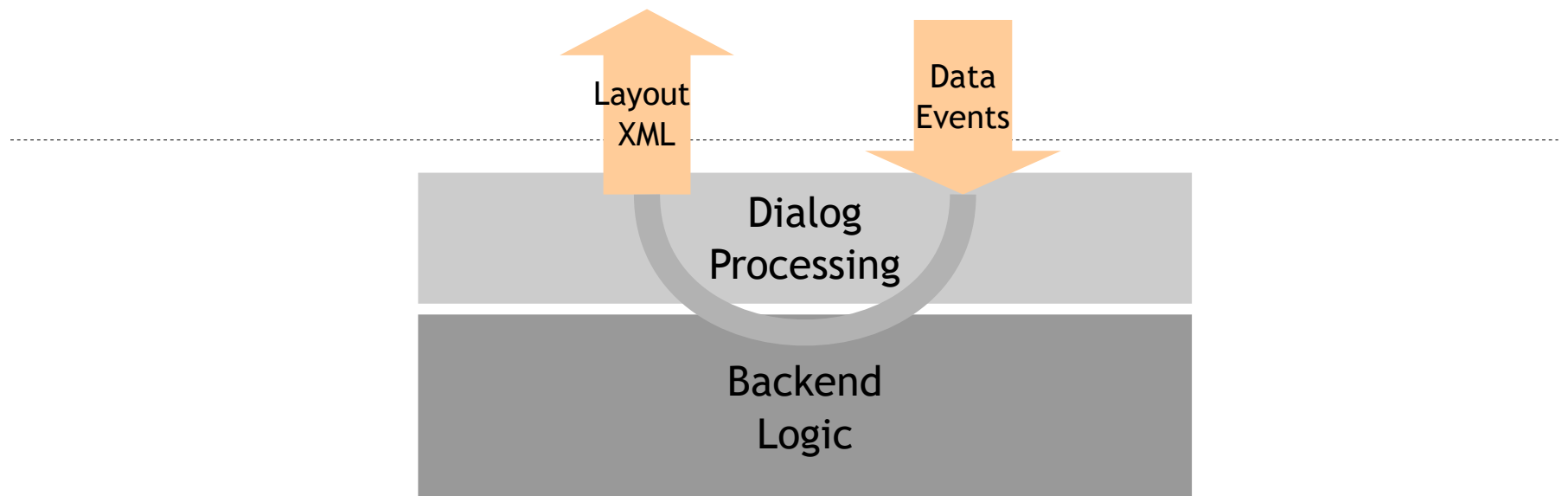
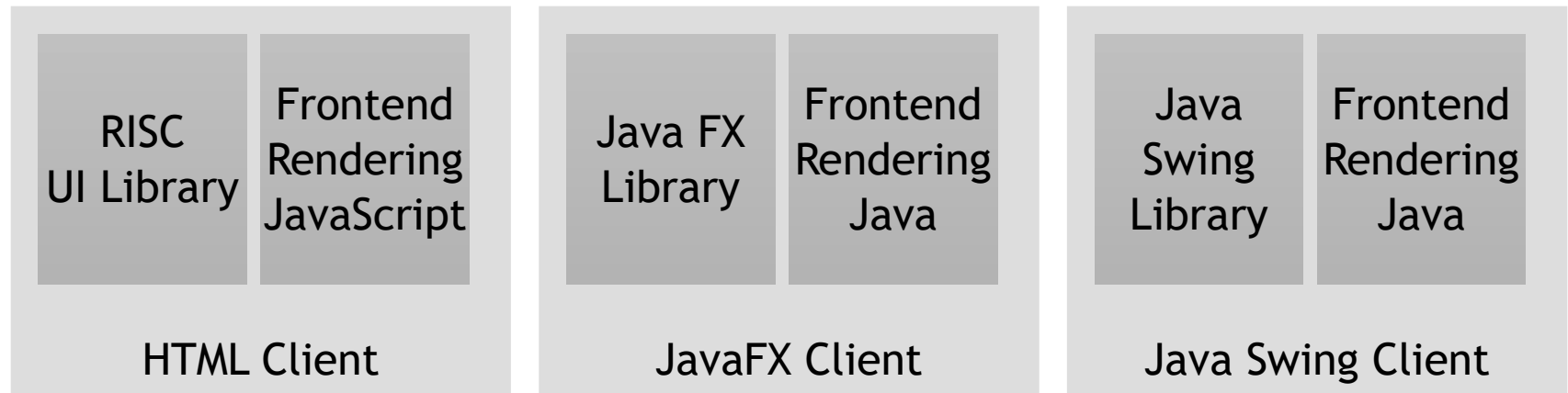
function _reactOnClearButtonAction()
{
    m_nameField.setValue("");
    m_outputLabel.setLabelText("No activity yet.");
}

```

# CaptainCasa Enterprise Client Thin Client Architecture



# CaptainCasa Enterprise Client Thin Client Architecture



# Summary



# Summary

- The RISC Browser Architecture is a paradigm shift for using HTML.
- Compatibility by design
  - and not: Compatibility by test / resources
- Regain of Control!
  - Robustness
  - Performance
  - Layouting

# Summary

- The RISC Browser Architecture is a paradigm shift for using HTML.
- Compatibility by design
  - and not: Compatibility by test / resources
- Regain of Control!
  - Robustness
  - Performance
  - Layouting



# Summary

HTML  
Durchdringung

Cloud



extern

intern

# Summary

HTML  
Durchdringung

RISC HTML



extern

intern





**„Convert to RISC!“**

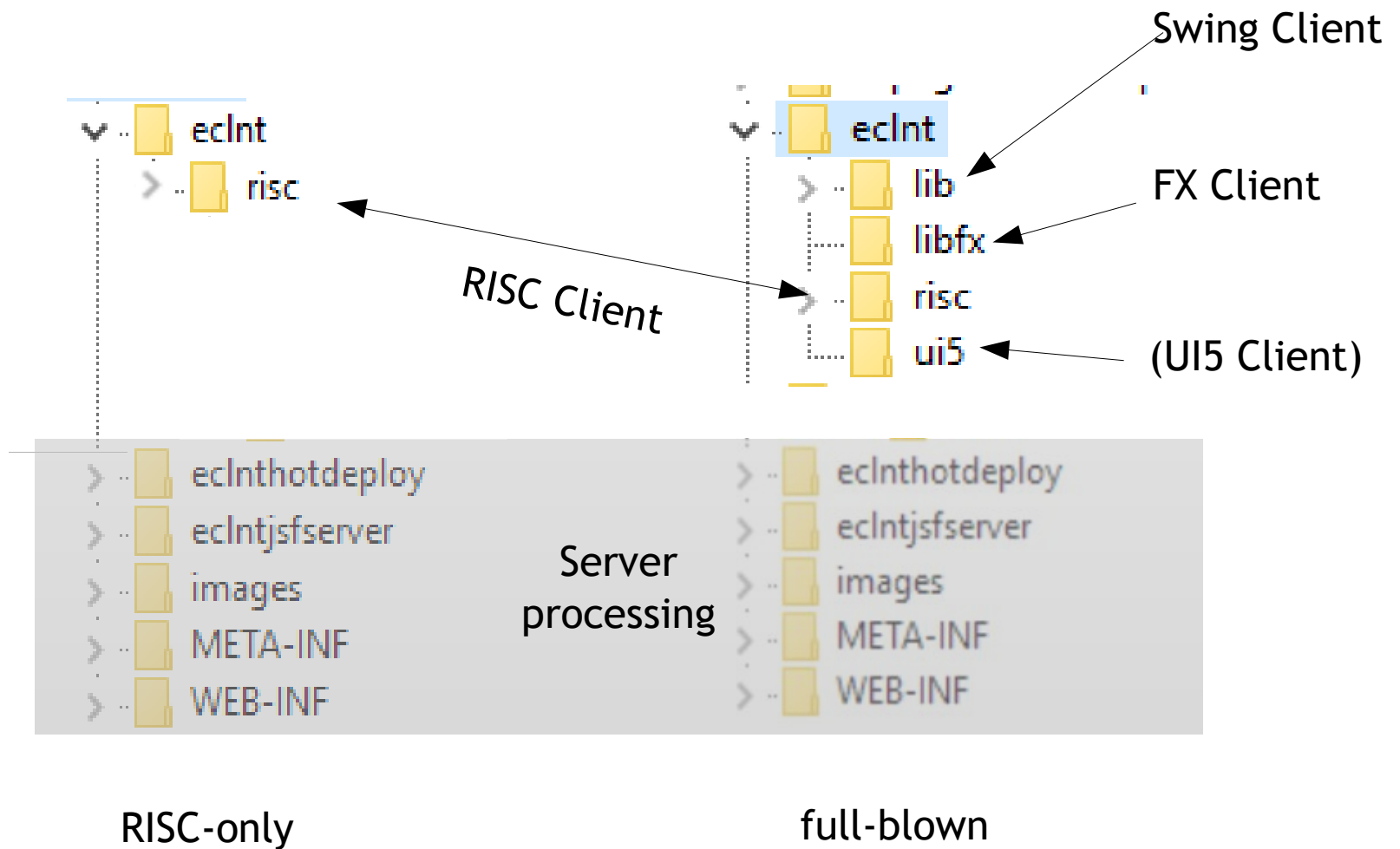
**CaptainCasa  
Enterprise Client**

# Two types of installation

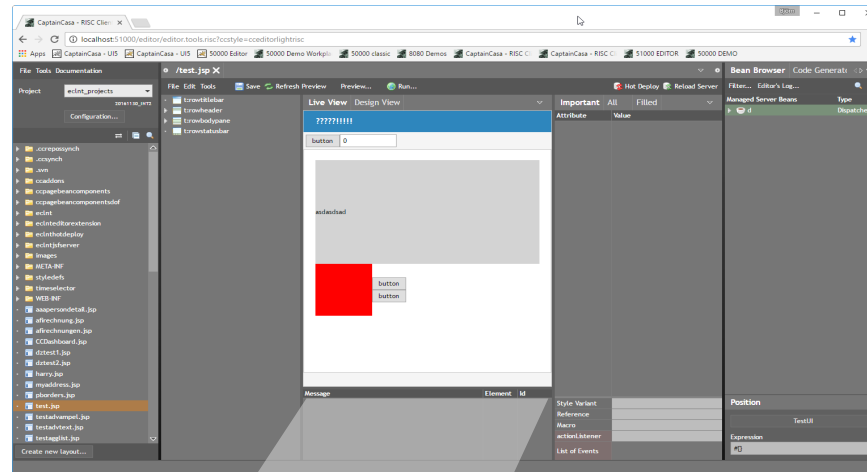
- <http://www.CaptainCasa.com>
  - ==> RISC only (100 MB)
- <http://www.CaptainCasa.com/java>
  - ==> Full blown (all clients, 280 MB)

# Conversion to RISC

- Main difference on file system:



# 2 Tomcats...



Application  
Tomcat

50000

Editor  
Tomcat

51000



# Conversion to RISC

- Way to go:
  - Install newest version (full blown)
  - Update web.xml (web.xml\_template)
  - Go!
- >> 90% degree of compatibility

# Areas of Incompability

## BGPAINT Attribute

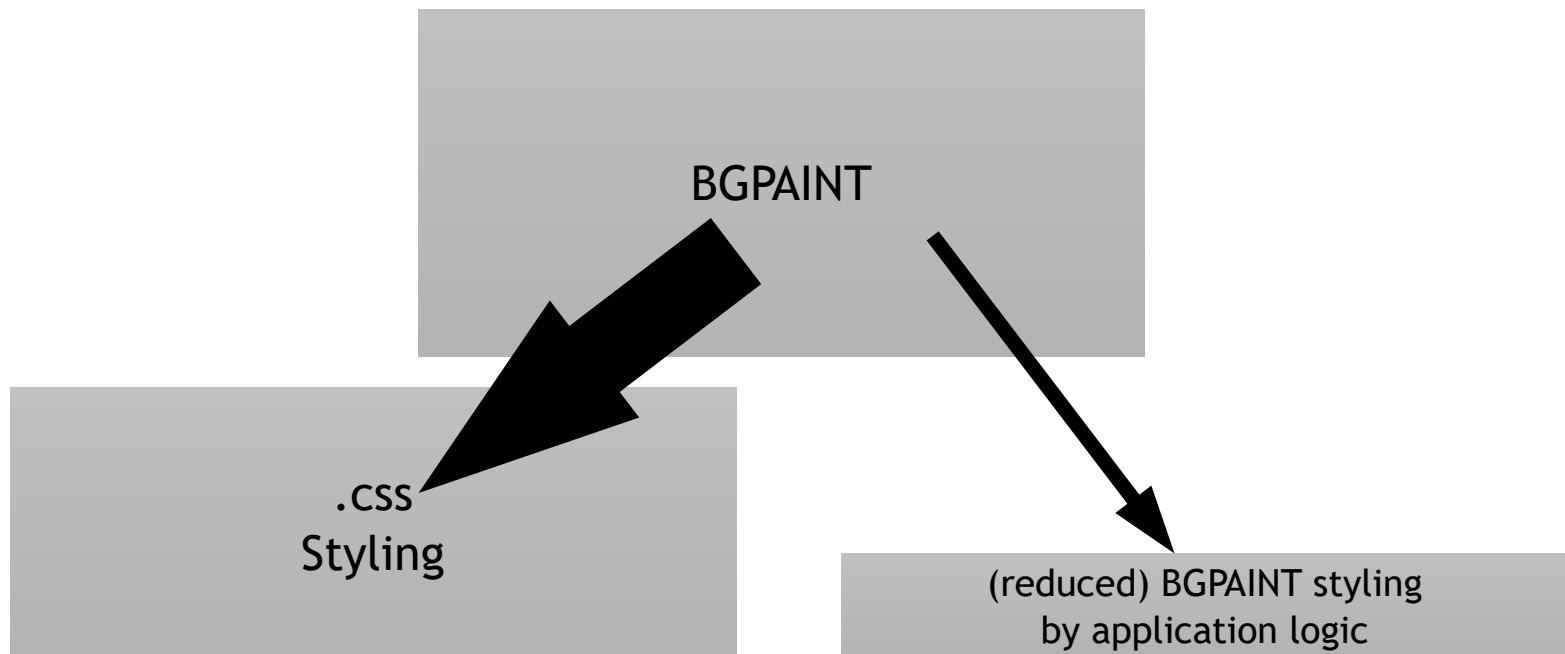
- BGPAINT - smaller set of commands
  - Reason: BGPAINT is now transferred into direct style assignments
    - ...and was done by explicit 2D-Rendering in Java Swing and JavaFX

error()
mandatory()
bgbackground(#FF0000)
bgbackground(#FF0000,#0000FF,vertical)
bgimage(left,/images/xyz.png)
bgwrite(left,...text...)
bgwrite(left,...text...,#800000,12)

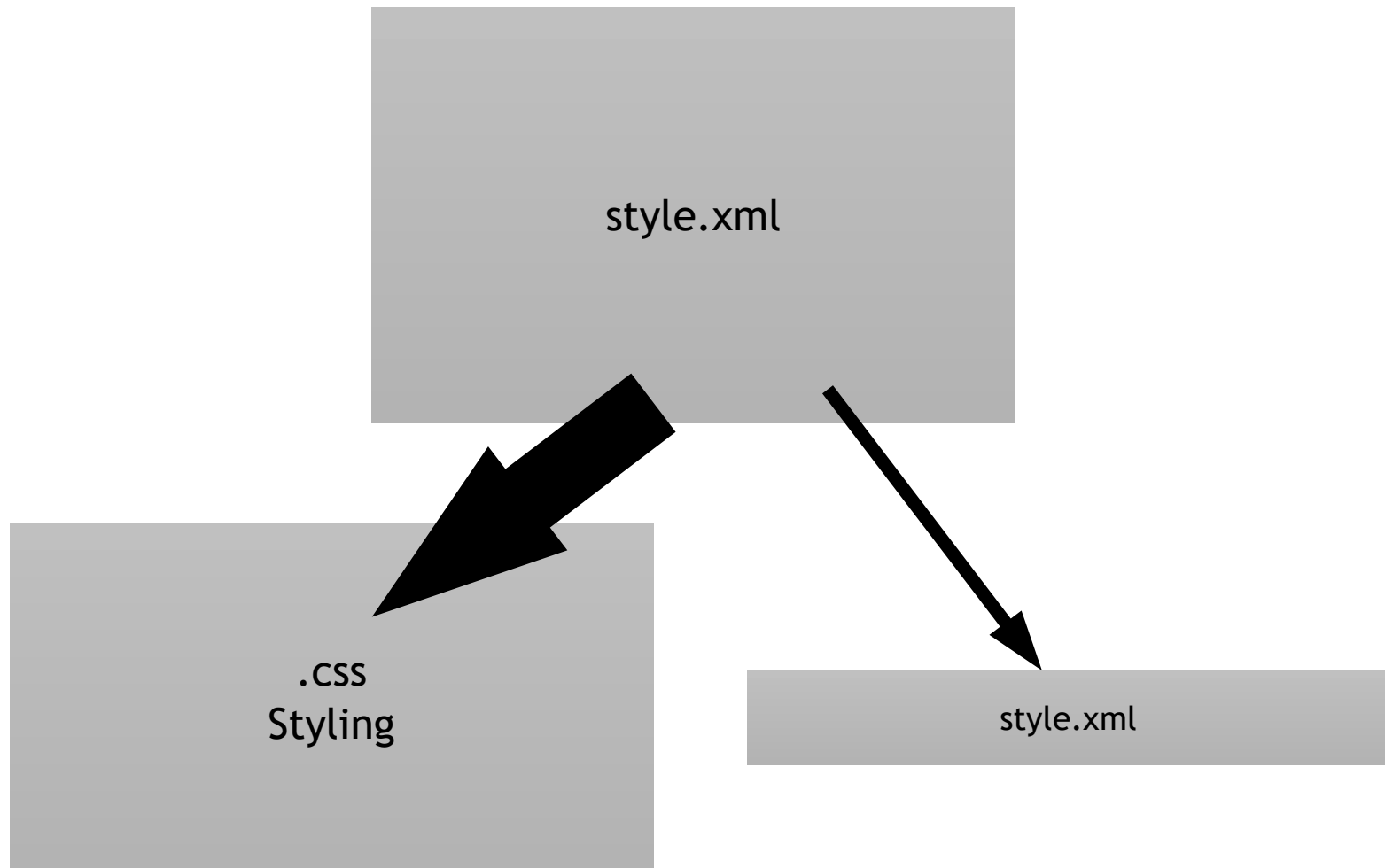
# Areas of Incompability

## BGPAINT Attribute

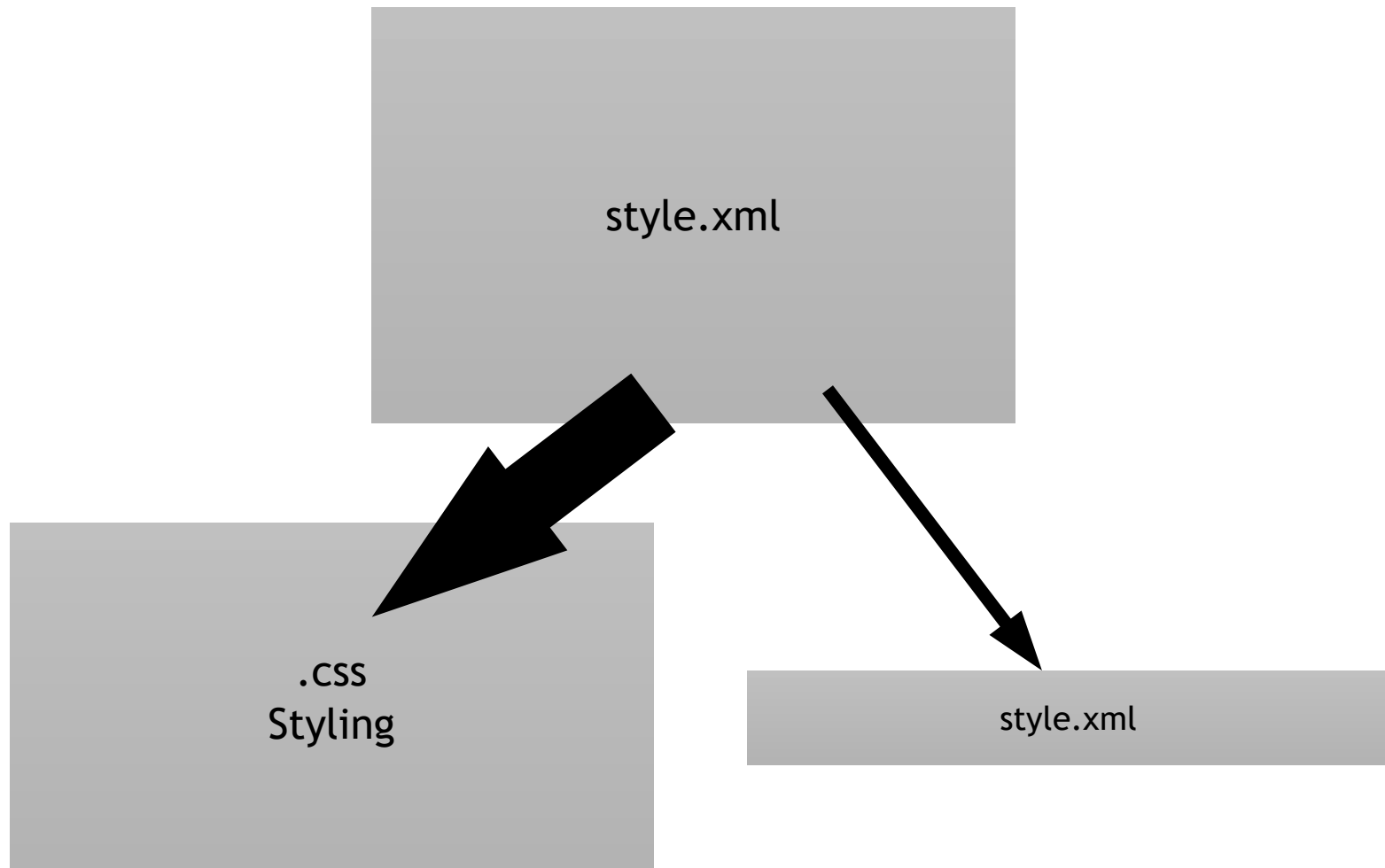
- Swing-Users: Role of BGPAINT should be re-considered
  - Swing: BGPAINT was central part of the styling
    - No availability of CSS-type-styling...



# Areas of Incompatibility / Rework Style Definition



# Areas of Incompatibility / Rework Style Definition



# Areas of Incompatibility / Rework File Upload/Download

- Browser Client-Sandbox is very limited when it comes to file up/download
  - No publishing of any details (e.g. directory structure on client side)
  - No automatic downloads
  - Limited API for read access
  - No API for write access

# Areas of Incompatibility / Rework Interface Components

- No access to any client side interfaces
  - serial RS232
  - UDP Datagrams
  - TCP/IP
  - file system
  - clipboard
  - Desktop API
  - Starting programs
  - direct printing
  - client properties transfer (including user name)
  - system tray

# Areas of Incompatibility / Rework Interface Components

- The only one interface which is left on client side is...
  - ...http! ;-)



# Areas of Incompatibility / Rework Components dealing with Window

- No „real“ notification if client is closed
  - CLIENTCLOSER component



**„Take the RISC!“**

**Style Management**

# Style

## Attribute-based Style - style.xml

```
<tag name="t:button" variant="default">  
  <set attribute="styleseq" value="risobutton"/>  
  <set attribute="..." value="..." />  
</tag>
```

presetting of attributes

## Control Instance

text  
background  
border  
styleseq  
stylevariant  
...

Save

(risobutton)  
**default**

## css Style - riscstyle.css/.js

```
.risobutton  
{  
  font-size: ...;  
  color: ...;  
  ...  
}
```

<t:button text="Some text" .../>

Result:

Some text





„Take the RISC!“

**Maven**

A black and white photograph of a person's legs and feet as they run on a paved path. The person is wearing dark leggings and running shoes. The background is blurred, showing other people in the distance. The text „Take the RISC!“ is overlaid in large white font across the center of the image.

**„Take the RISC!“**

**Hot Deployment**



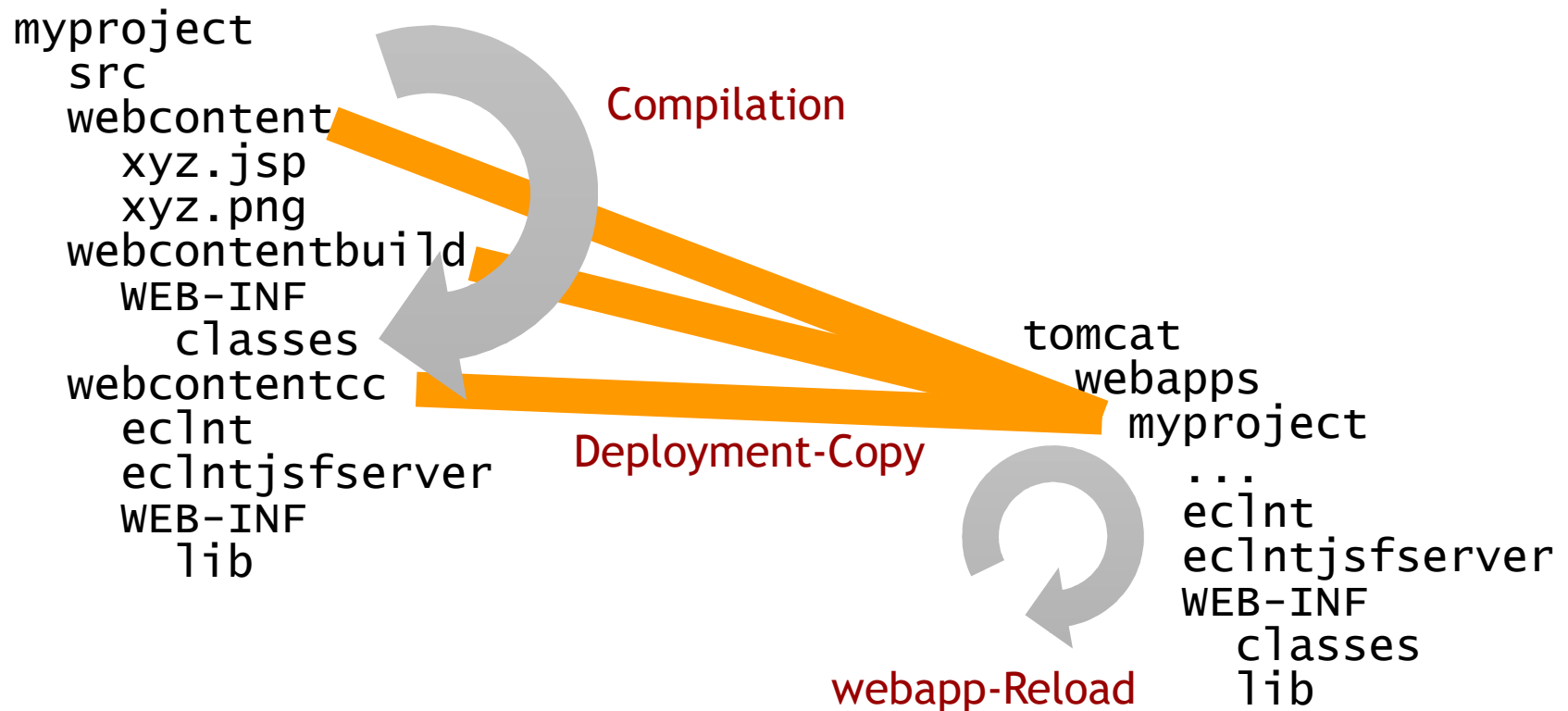
# (Hot) Deployment

- > 50% of „you“:
  - Permanent restart of Tomcat because of „stupid changes“
    - Changes in Layout
    - Changes in Java
  - Start Tomcat in debugging mode to be able to do some hot code replacement
- ??% of „you“:
  - Use JRebel
  - ...work smarter in general, but still are never 100% sure what change is applied when...

# (Hot) Deployment

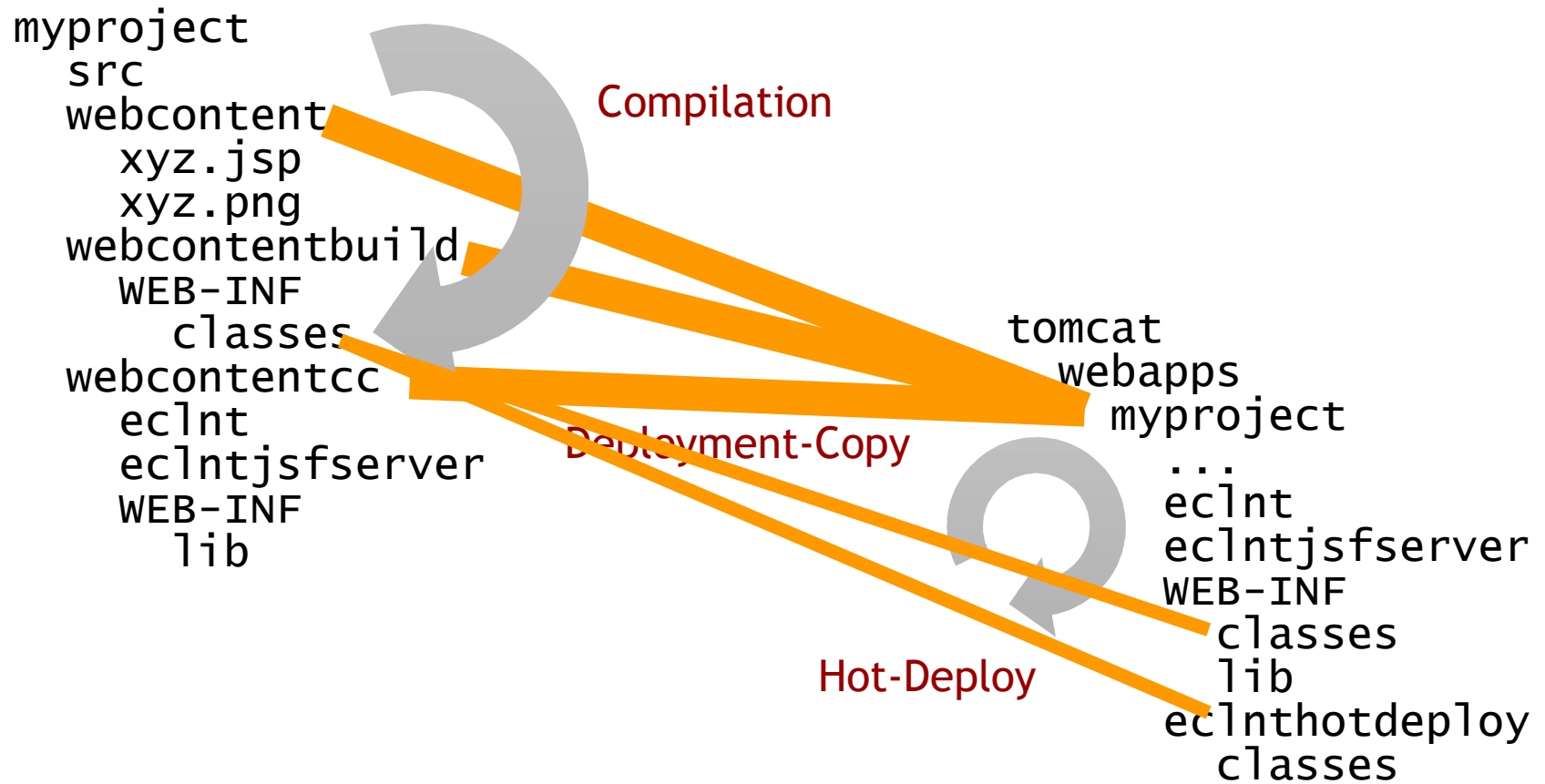
- In many cases, the reason behind is:
  - Build infrastructures that have to be reprocessed for every single change.
    - Maven! ;-)
- Hot Deployment adds a bit of complexity when developing - but it's worth it!

# Normal Deployment - CC Style

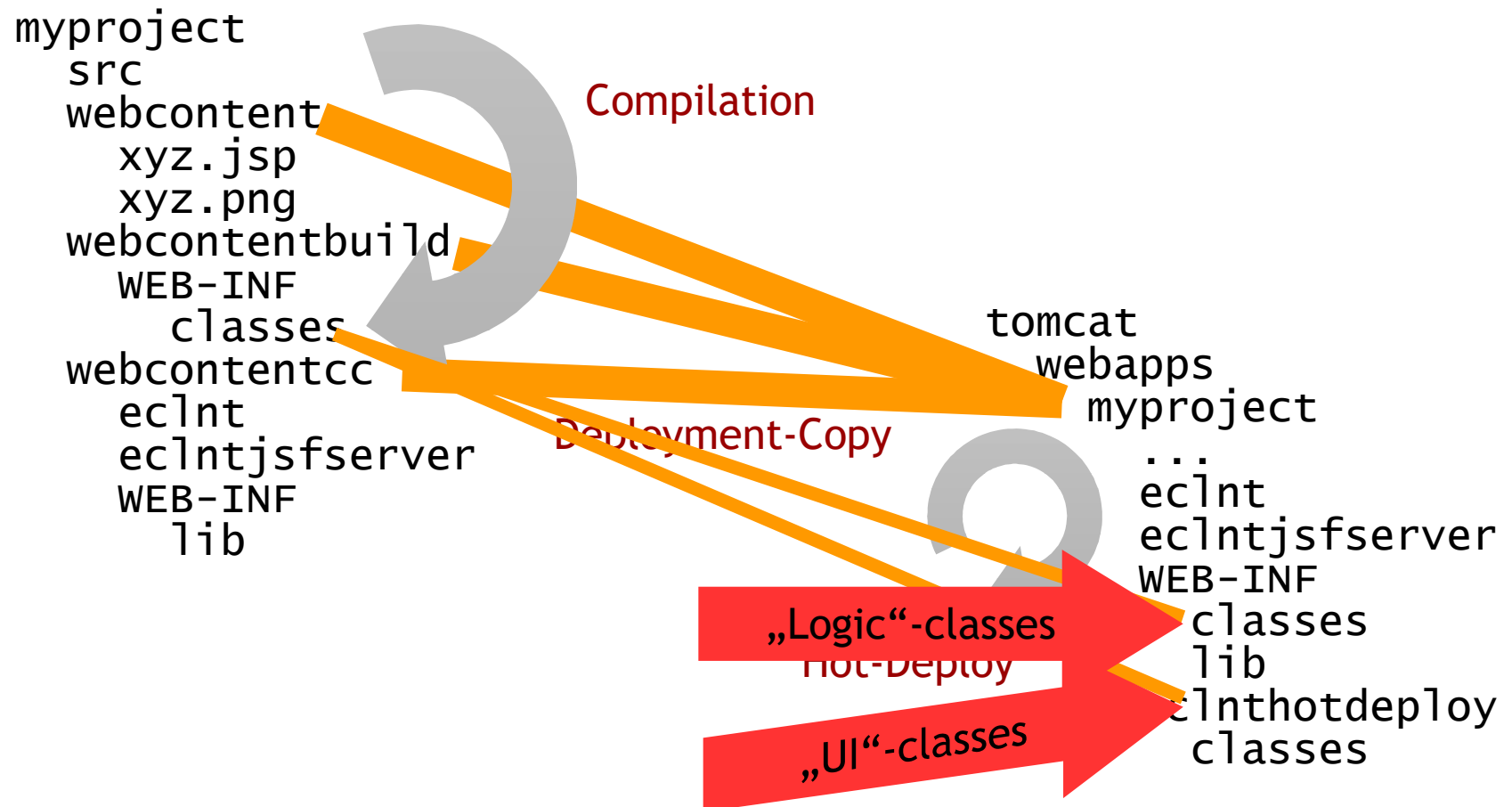




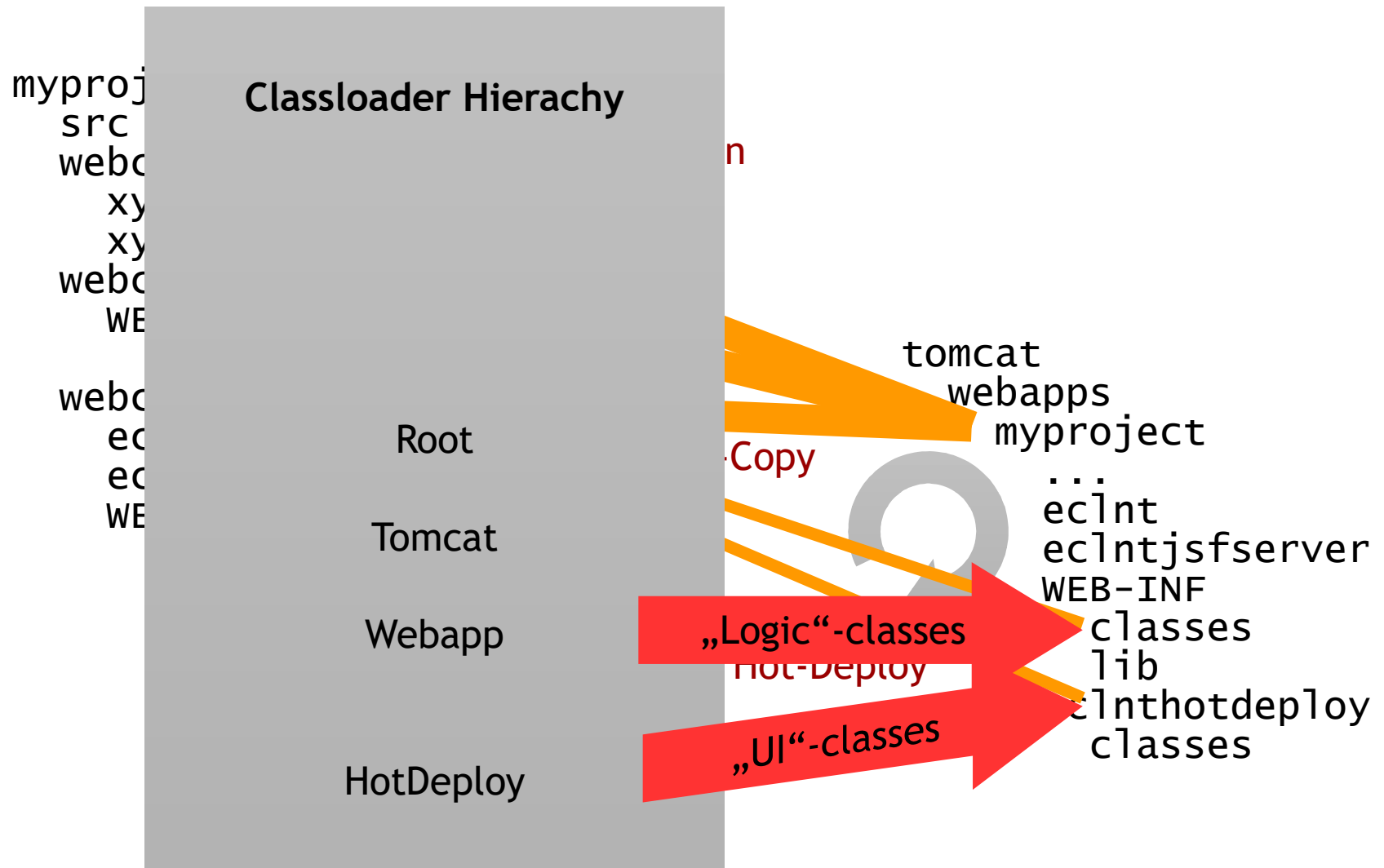
# Hot Deployment - CC Style



# Hot Deployment - CC Style

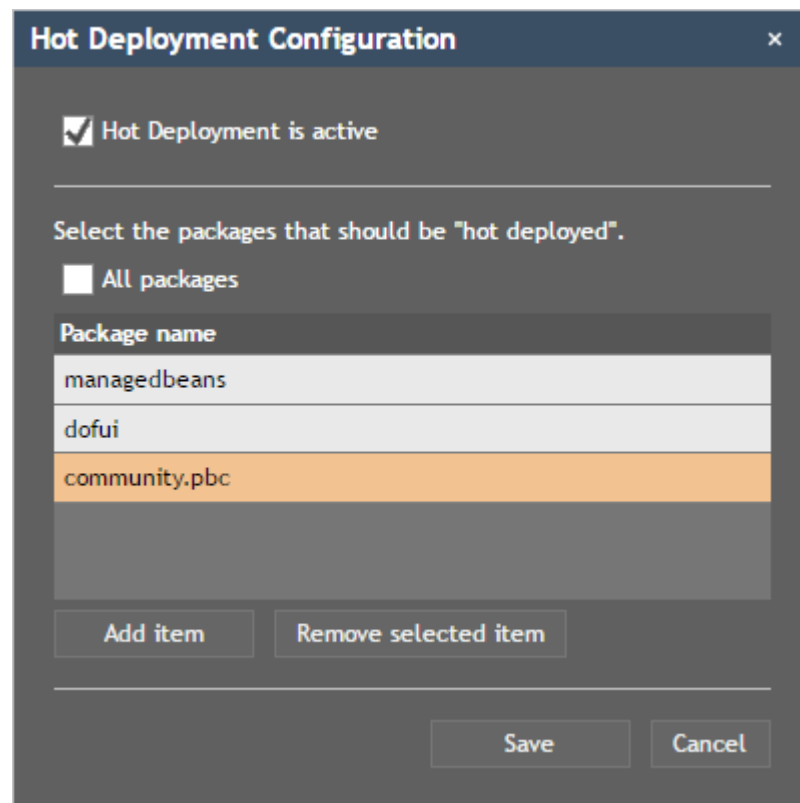


# Hot Deployment - CC Style



# CaptainCasa Hot Deployment

- Not based on 2 source directories anymore!
- But based on „package-rule-definition“.

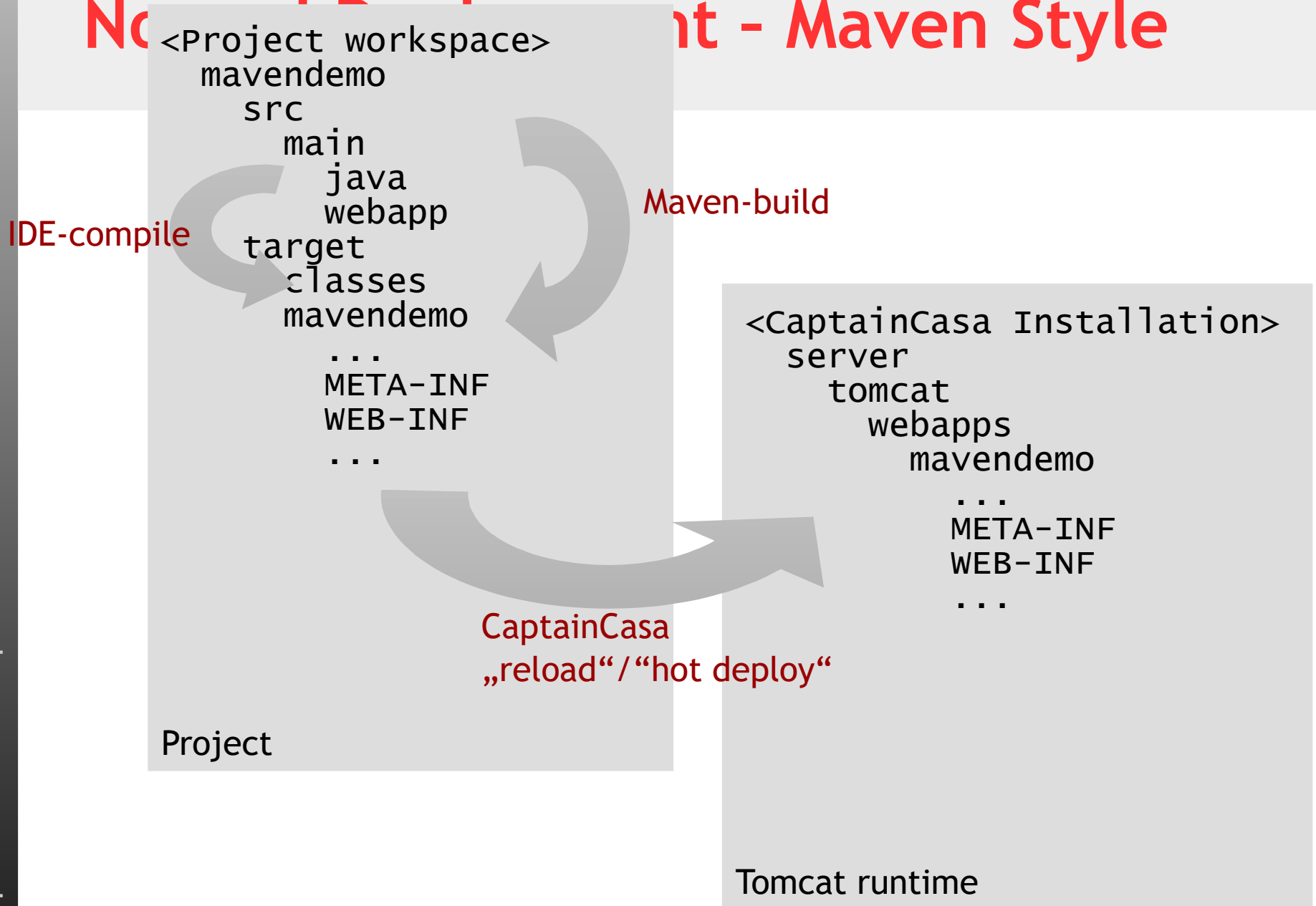


# Triggering Hot Deployment

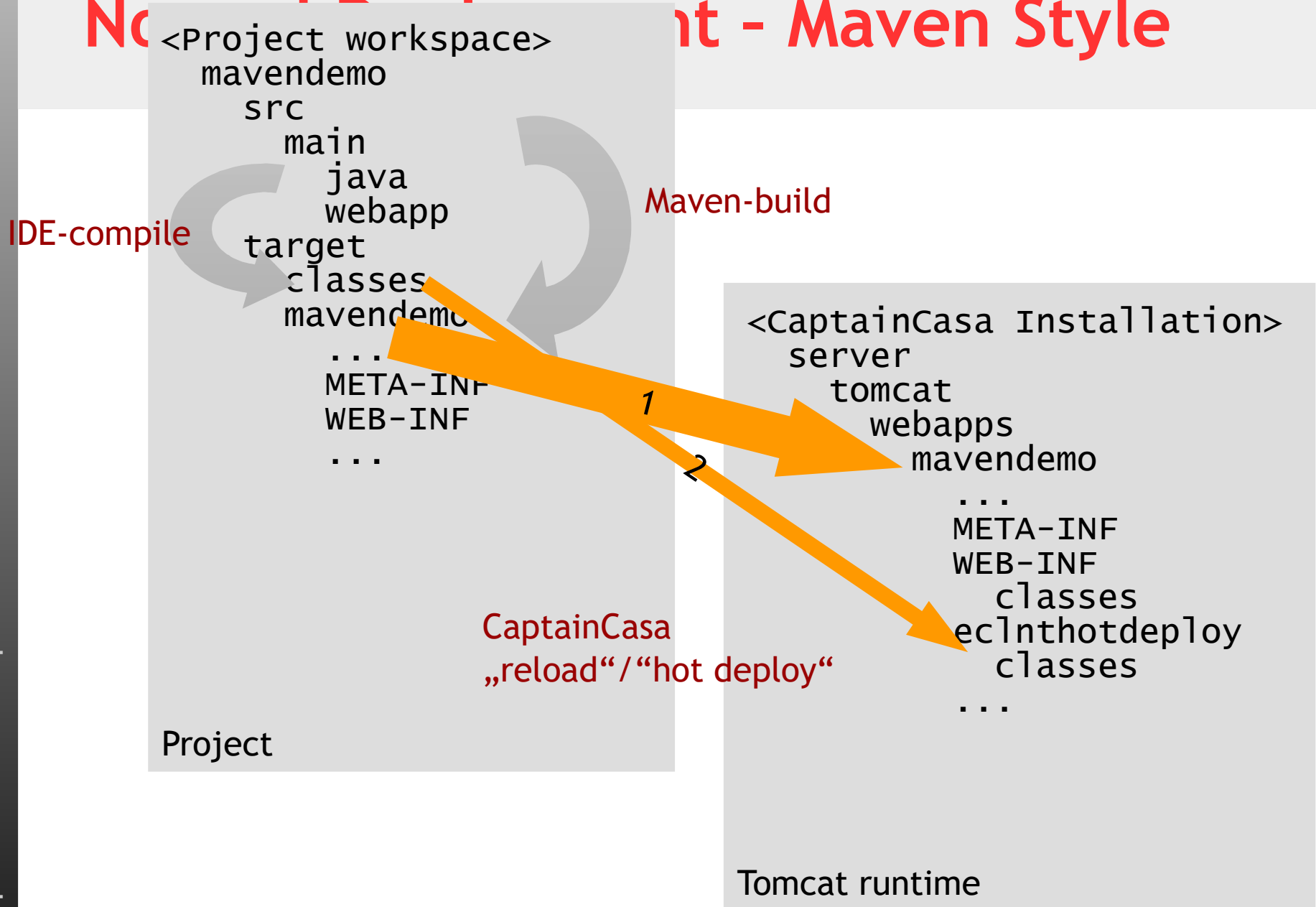
- ...“Hot Deploy“ Button in Layout Editor...
- ...change of file content in runtime (Tomcat):

```
ec\Inthotdeploy/  
.cctrigger
```

# Project - Maven Style



# Not a ... - Maven Style





**„Take the RISC!“**

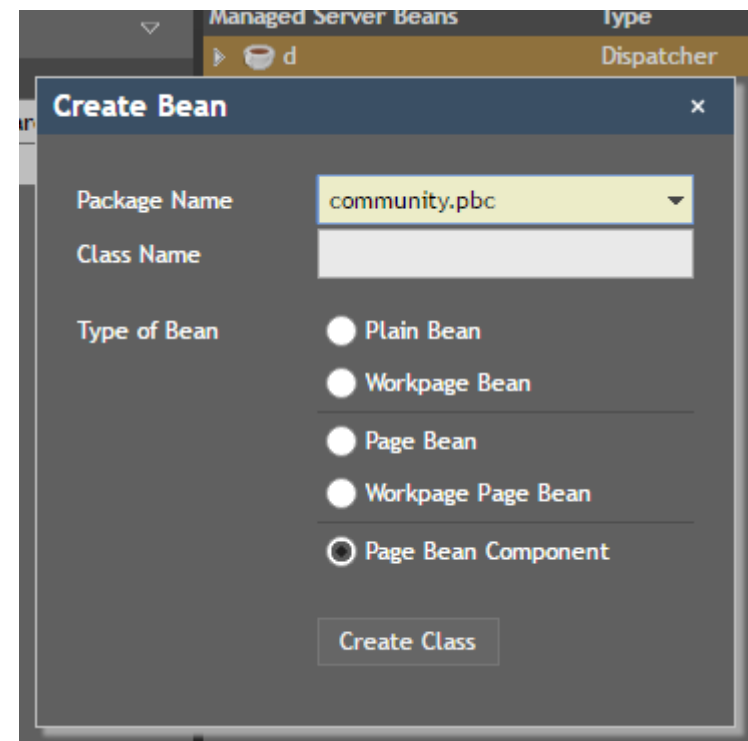
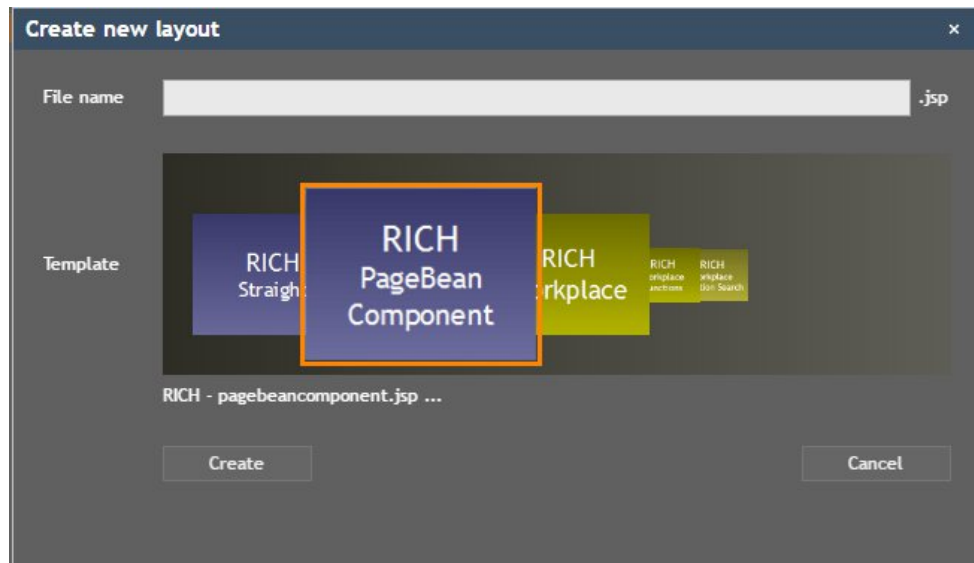
**Page Bean Components++**



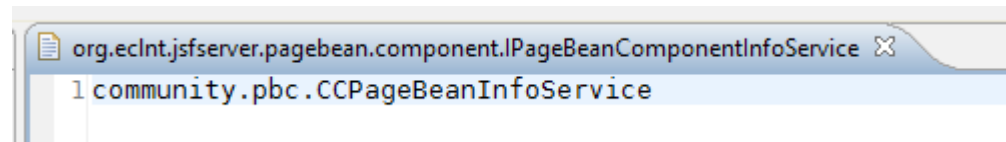
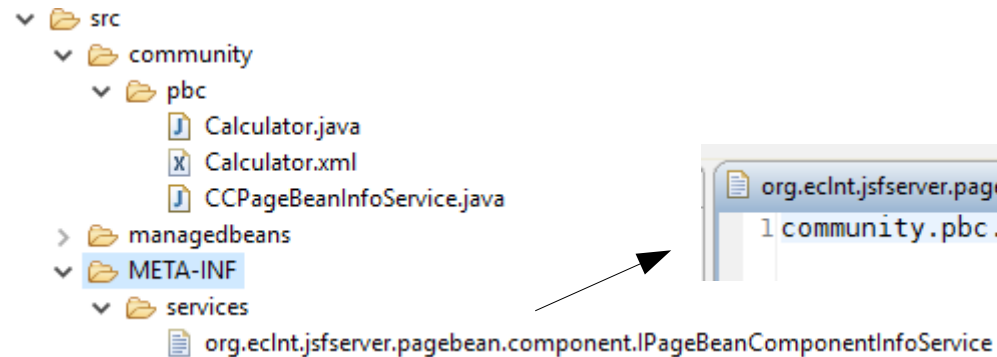
# What the hell is a „PageBeanComponent“

- It's a highly re-usable, self containing UI component.
- It's a conglomerat of...
  - Layout Definition (XML)
  - the Java program behind
  - the resource files behind
- All parts are packaged inside a .jar file.

# Creation of PageBeanComponent

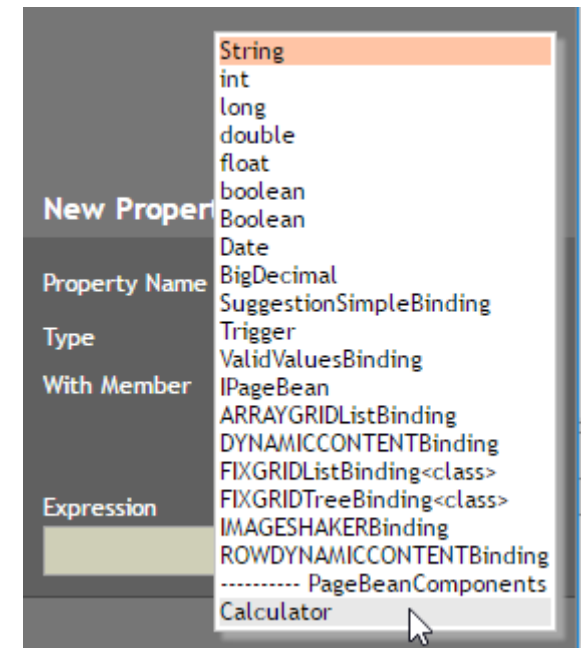
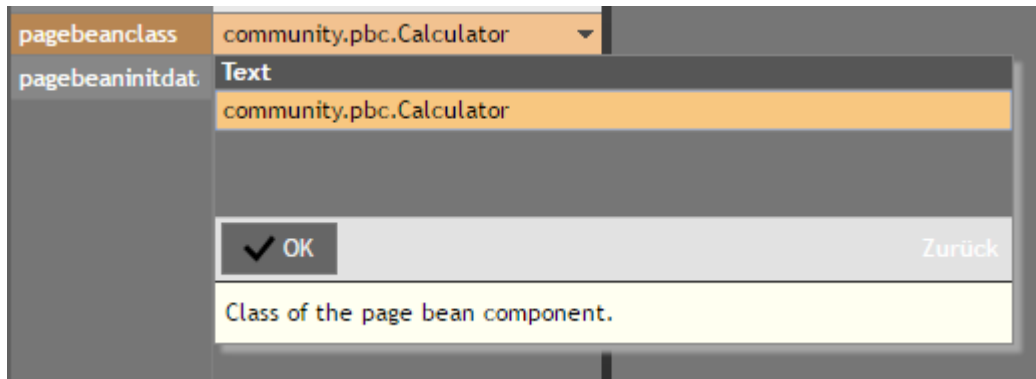


# Registration of PageBeans



```
1 package community.pbc;
2
3 import java.util.ArrayList;
4 import java.util.List;
5
6 import org.eclnt.jsfserver.pagebean.component.IPageBeanComponentInfoService;
7
8 public class CCPageBeanInfoService
9     ... implements IPageBeanComponentInfoService
10 {
11     ... static List<Class> MYCLASSES = new ArrayList<Class>();
12     ... static
13     ... {
14     ...     ... MYCLASSES.add(Calculator.class);
15     ... }
16     ... @Override
17     ... public List<Class> getPageBeanComponents()
18     ... {
19     ...     ... return MYCLASSES;
20     ... }
21 }
22
```

# => Layout Editor knows about



# PageBeanComponent „CCComposedText“

Guest user , 30.11.2016 15:40:45  
Hi, I have a question on using the chat component. Where can I find it?

CaptainCasa , 30.11.2016 15:40:45  
Hi, the chat component's technical name is CCComposedText. It is part of the addon package coming with the CaptainCasa installation.

Guest user , 30.11.2016 15:40:45  
Oh, I see, it's the eclnt\_pbc.jar package.

CaptainCasa , 30.11.2016 15:40:45  
Yessss. Just add to your WEB-INF/lib. Nothing else to do. Then use control PAGEBEANCOMPONENT and create an instance of CCComposedText as counter part.



Abc def

Add

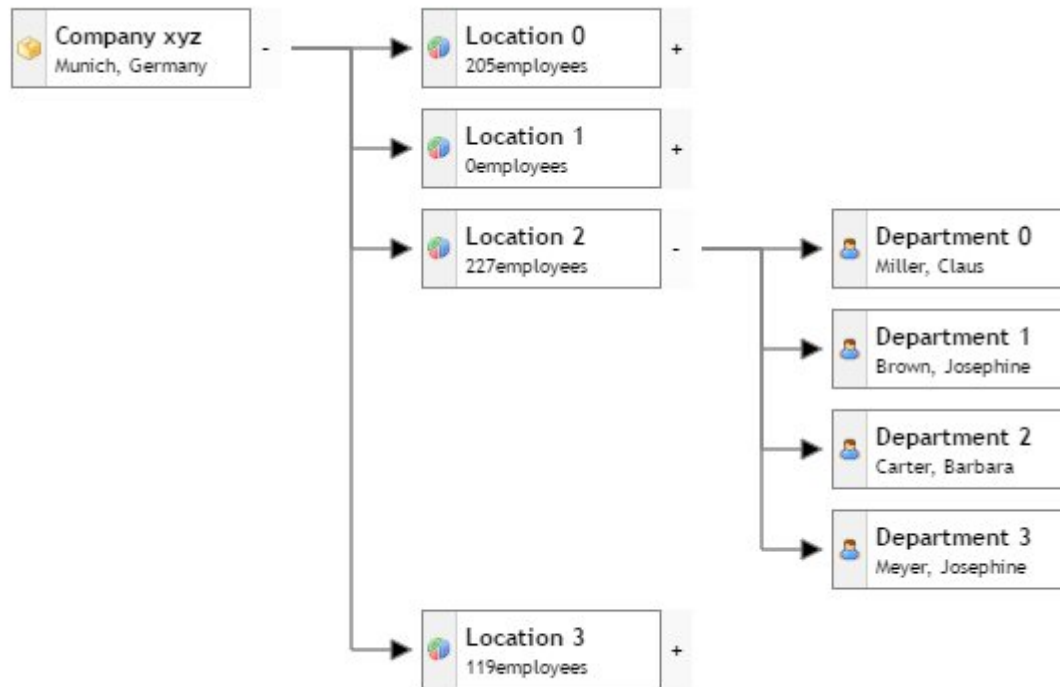
```
public TextItem(String by, String text, Date at)
{
```

```
public void prepare(String by, List<TextItem> textItems, IListener listener)
{
    m_by = by;
}
```

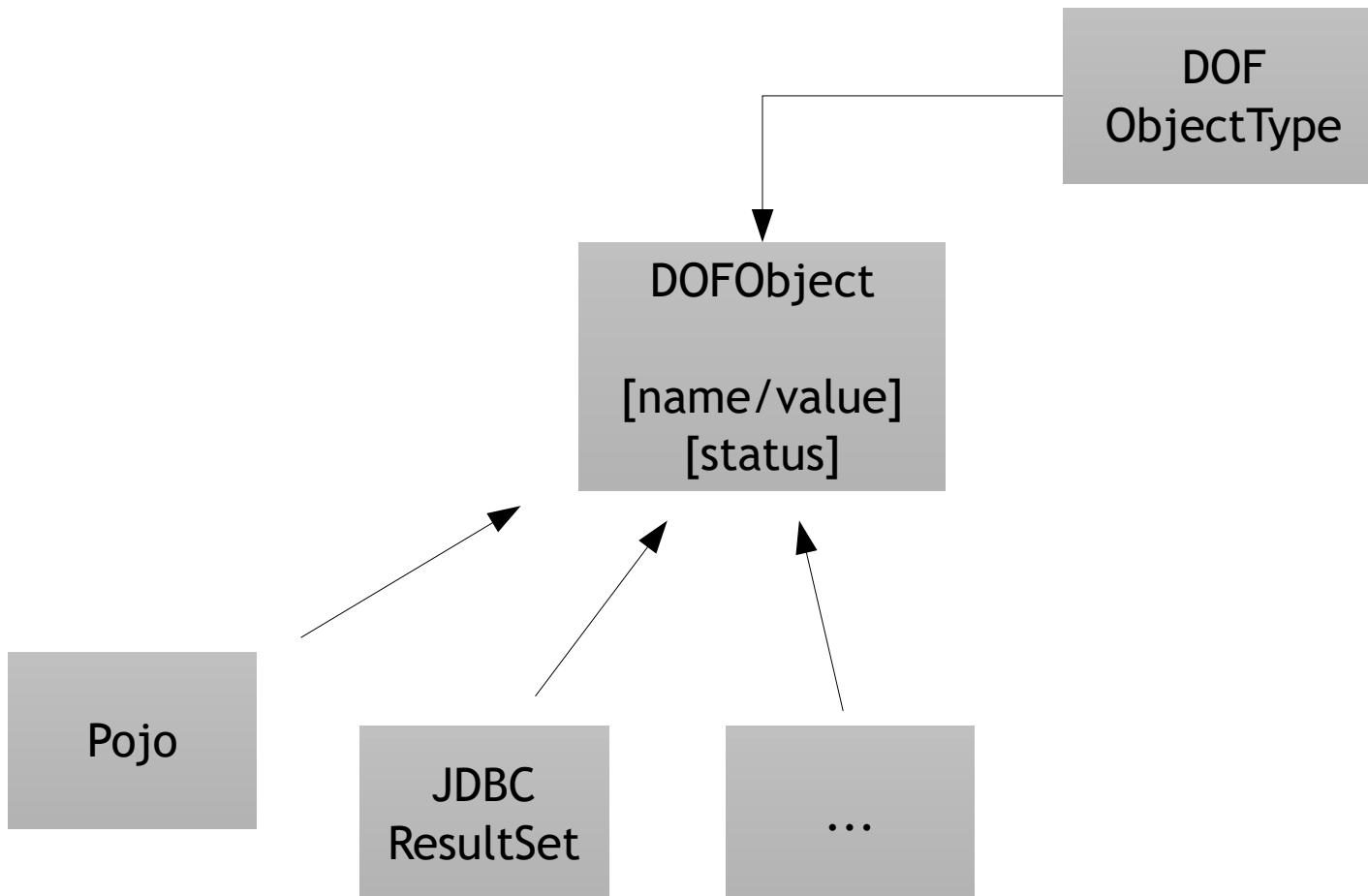
# PageBeanComponent CCAttachments

classes.jsa	13.370 kB	Download	
Xusage.txt	2 kB	Download	
<input type="button" value="Add"/>			

# PageBeanComponent CCGraphicalTree



# DOF - Framework





# DOF - Framework

DOFObjectListUI

DOFObjectEditorUI

DOFObjectUI

DOFPropertyFieldUI

DOFPropertyCheckboxUI

DOFPropertyComboUI

Screen Processing: PageBeanComponents

## Logic Processing

DOFProcessing

DOFValidator

DOFPersistor

DOFObject  
[name/value]  
[status]

Data Object

# DOF - Framework

- Current status
    - Pojo processing
    - JDBC processing
  - Detail UI
    - Dynamically created
    - Explicitly designed
  - List UI
- 
- Missing
    - Query UI
    - JPA / Hibernate Binding



**„Take the RISC!“**

**2016 Others...**

# Runtime Logging

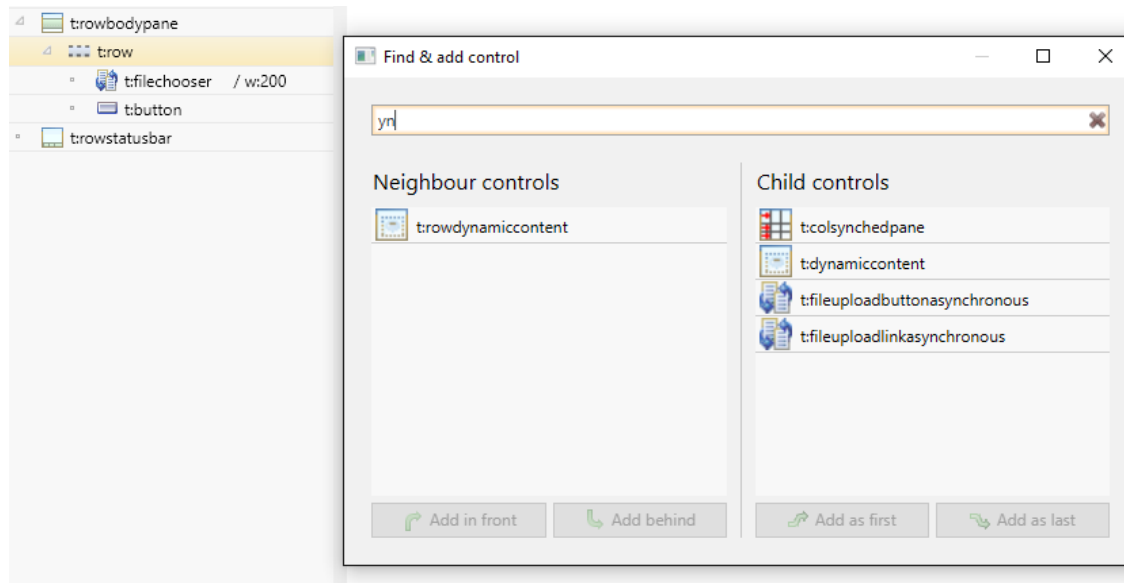
```
REQUEST: Total: 1734ms, Invoke: -1ms (null)
MEMORY : Occupied: 90M, Total: 146M, Max: 518
REQUEST: Total: 17ms, Invoke: 2ms ({d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction})
REQUEST: Total: 95ms, Invoke: 15ms ({d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction}, #{d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction})
REQUEST: Total: 168ms, Invoke: 30ms ({d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction}, #{d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction})
REQUEST: Total: 15ms, Invoke: 0ms ({d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction}, #{d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction})
MEMORY : Occupied: 78M, Total: 146M, Max: 518
REQUEST: Total: 78ms, Invoke: 16ms ({d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction}, #{d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction})
REQUEST: Total: 52ms, Invoke: 38ms ({d.d_6.demoCombofield.onDepartmentAction}, #{eclntdefscr.popupIdTextSelection.onRenderBeginAction})
REQUEST: Total: 19ms, Invoke: 1ms ({eclntdefscr.modelessPopups['I1'].onPopupClosedByUser}, #{eclntdefscr.popupIdTextSelection.onRenderBeginAction})
REQUEST: Total: 19ms, Invoke: 11ms ({d.d_6.demoCombofield.onDepartmentAction}, #{eclntdefscr.popupIdTextSelection.onRenderBeginAction})
MEMORY : Occupied: 99M, Total: 146M, Max: 518
REQUEST: Total: 16ms, Invoke: 0ms ({eclntdefscr.popupIdTextSelection.onFilterTextAction}, #{eclntdefscr.popupIdTextSelection.onRenderBeginAction})
REQUEST: Total: 0ms, Invoke: 0ms ({eclntdefscr.popupIdTextSelection.onFilterTextAction}, #{eclntdefscr.popupIdTextSelection.onRenderBeginAction})
REQUEST: Total: 0ms, Invoke: 0ms ({eclntdefscr.popupIdTextSelection.onFilterTextAction}, #{eclntdefscr.popupIdTextSelection.onRenderBeginAction})
MEMORY : Occupied: 103M, Total: 146M, Max: 518
REQUEST: Total: 19ms, Invoke: 0ms ({eclntdefscr.modelessPopups['I2'].onPopupClosedByUser}, #{eclntdefscr.popupIdTextSelection.onRenderBeginAction})
MEMORY : Occupied: 108M, Total: 146M, Max: 518
REQUEST: Total: 94ms, Invoke: 16ms ({d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction}, #{d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction})
REQUEST: Total: 23ms, Invoke: 7ms ({d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction}, #{d.workpageContainer.onCloseCurrentWorkpage})
REQUEST: Total: 24ms, Invoke: 0ms ({d.workpageContainer.onCloseCurrentWorkpage})
REQUEST: Total: 62ms, Invoke: 31ms ({d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction}, #{d.d_1.workpageContainer.functionsManager.trees[0].ftree.onGridAction})
REQUEST: Total: 16ms, Invoke: 8ms ({d.d_8.demoCombofield.onDepartmentAction}, #{eclntdefscr.popupIdTextSelection.onRenderBeginAction})
REQUEST: Total: 10ms, Invoke: 1ms ({eclntdefscr.popupIdTextSelection.lines.onGridAction}, #{eclntdefscr.popupIdTextSelection.lines.onGridAction}, #{eclntdefscr.popupIdTextSelection.lines.onGridAction})
REQUEST: Total: 12ms, Invoke: 6ms ({d.d_8.demoCombofield.onDepartmentAction}, #{eclntdefscr.popupIdTextSelection.onRenderBeginAction})
REQUEST: Total: 8ms, Invoke: 0ms ({eclntdefscr.popupIdTextSelection.lines.onGridAction}, #{eclntdefscr.popupIdTextSelection.lines.onGridAction}, #{eclntdefscr.popupIdTextSelection.lines.onGridAction})
```

# COMBOFIELD Processing with Filter

The screenshot shows a software interface with a dropdown menu open. The dropdown menu has a search bar containing the text "dist" and a filter icon. Below the search bar, it indicates "Number of filtered values: 4". A table with two columns, "Id" and "Text", displays the filtered results:

Id	Text
SALES1	Sales and Distribution North
SALES2	Sales and Distribution East
SALES3	Sales and Distribution South
SALESW	Sales and Distribution West

At the bottom of the dropdown menu, there are two buttons: "OK" (with a checkmark icon) and "Cancel".



```
<style>
  ...
  <stylevalue name="ccWorkplaceOutestPadding" value="10"/>
  ...
</style>
```

The style value can be referenced via the following expression:

```
<t:rowdistance id="g_50" height="{ccstylevalue.ccWorkplaceOutestPadding}" />
```

**Name**

label

label

label

→

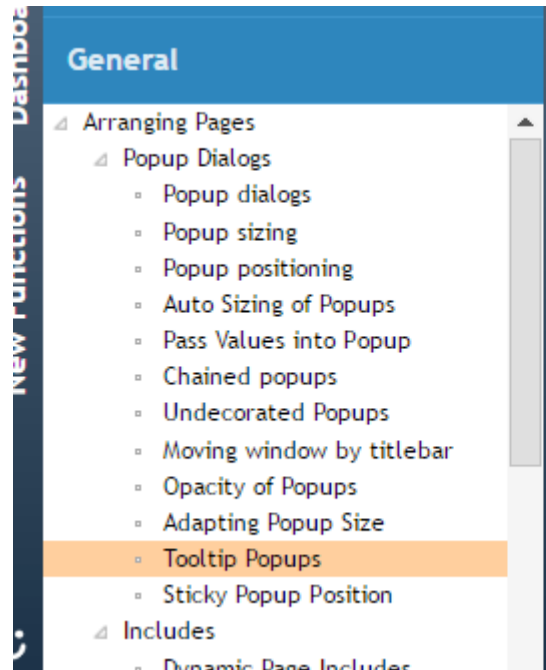
Selected value



- Tiled Area
- Transfer of actual Size
  - Pixel size
  - Category size

#### Adaptive Containers

- Flexible lines
- Flexible columns
- Adaptive areas
- Adaptive line
- Adaptive split area
- Adaptive tile container
- Adaptive toolbar



### Move the mouse over the fields...

Some field

In this example the popup component area.

Some field

In this example the popup out of the component are TOOLTIP attribute.

Some field

In this example the popup disappears if the user mov to 2 definitions: 1. the def `setCloseOnMouseExit(true)`



**„Take the RISC!“**

**Roadmap**

# Roadmap 2017

Do not touch!

Active Product

Hot Product

Business Client

Swing

JavaFX

RISC-HTML

Application Components

???

# Björn's Goals - To be discussed!...

- Have > 50% of you on RISC-HTML until next Community Meeting
- Gain some momentum outside the CaptainCasa Community.
- Have DOF-Framework as solid „Scaffolding“ framework - in cooperation with (some of) you.

## In general

- No parallel usage of different client types within one project/product
  - CaptainCasa does NOT grant 100% compatibility!
- Strong encouragement by CaptainCasa to use the RISC-HTML Client!
  - RISC-HTML is positioned as strategic default client





**„Take the RISC!“**

**Tell others about RISC!**



# Drüber schwätze!



- 100 EUR Amazon Gutschein
  - pro Kontakt, der zu einem Besuchstermin führt



# THANKS!!!

- For having come!
- For all the
  - Patience
  - Support
  - Friendlinessin 2016!
- Have a safe trip home!