

DMA

DEBUGGING UND TESTING IM MOBILEN WEBDESIGN

✿ CONTAO KONFERENZ 2014 ✿

 Janosch Skuplik

GESTRICHEN



Testing



Debugging



Häufige Probleme

Warum mobile?

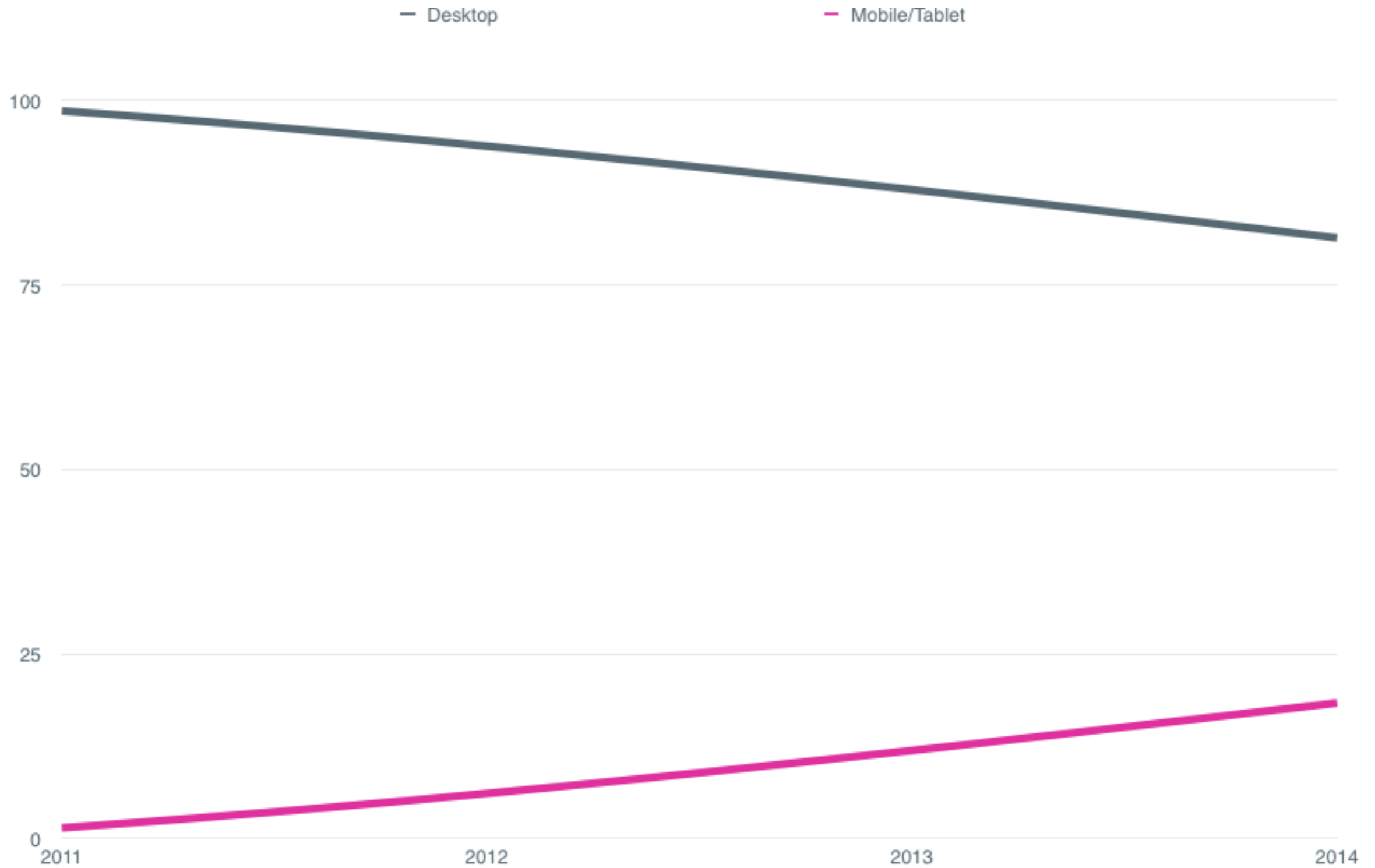
Warum mobile?

DMA

1. Die mobile Wachstumsrate ist größer als die von Desktop-PCs

Warum mobile?

DMA

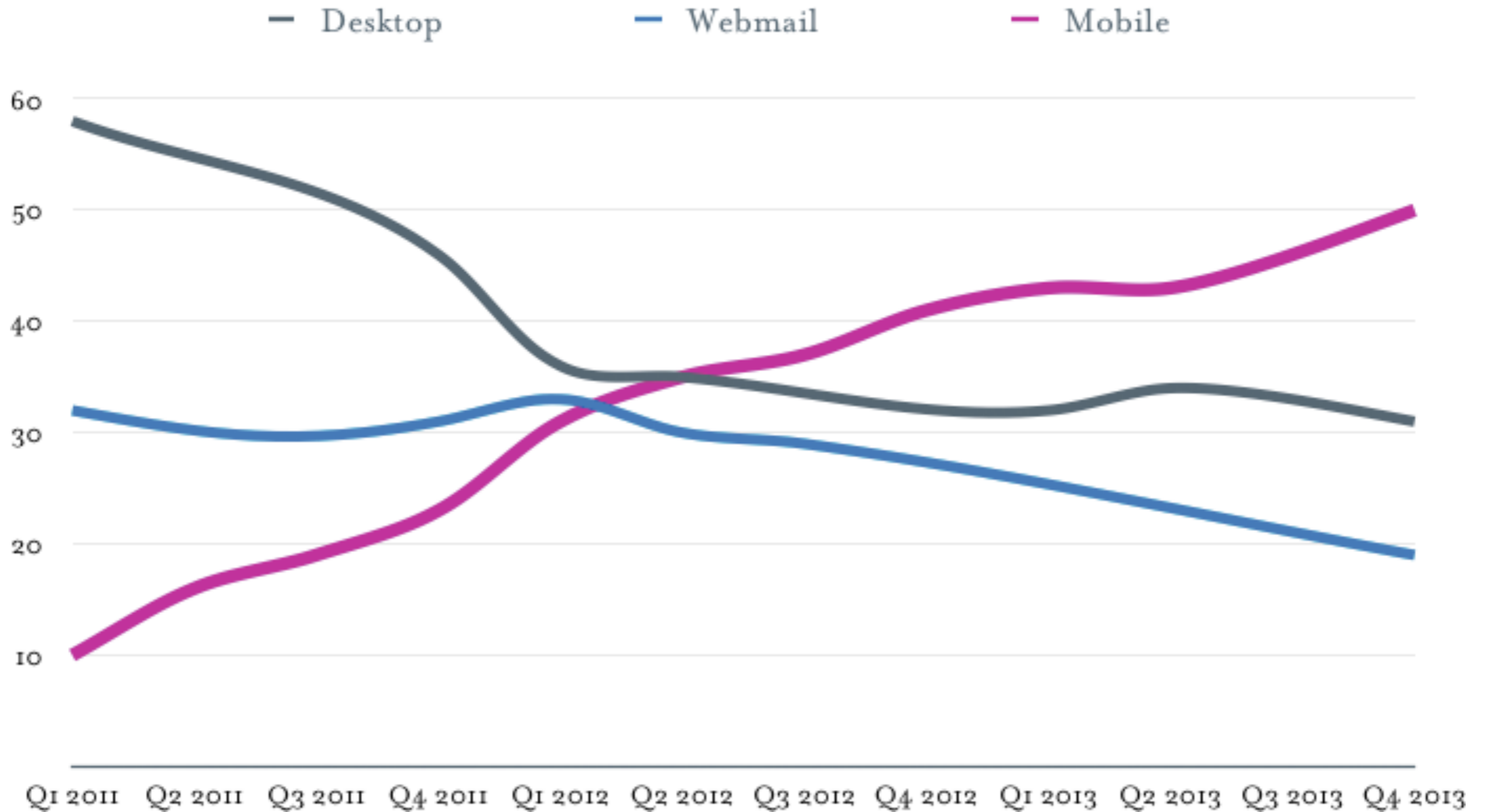


Warum mobile?

DMA

1. Die mobile Wachstumsrate ist größer als die von Desktop-PCs
2. E-Mails werden mobil geöffnet

Warum mobile?



Warum mobile?

DMA

1. Die mobile Wachstumsrate ist größer als die von Desktop-PCs
2. E-Mails werden mobil geöffnet
3. Links werden in sozialen Netzwerken geteilt
4. Wettbewerbsvorteil

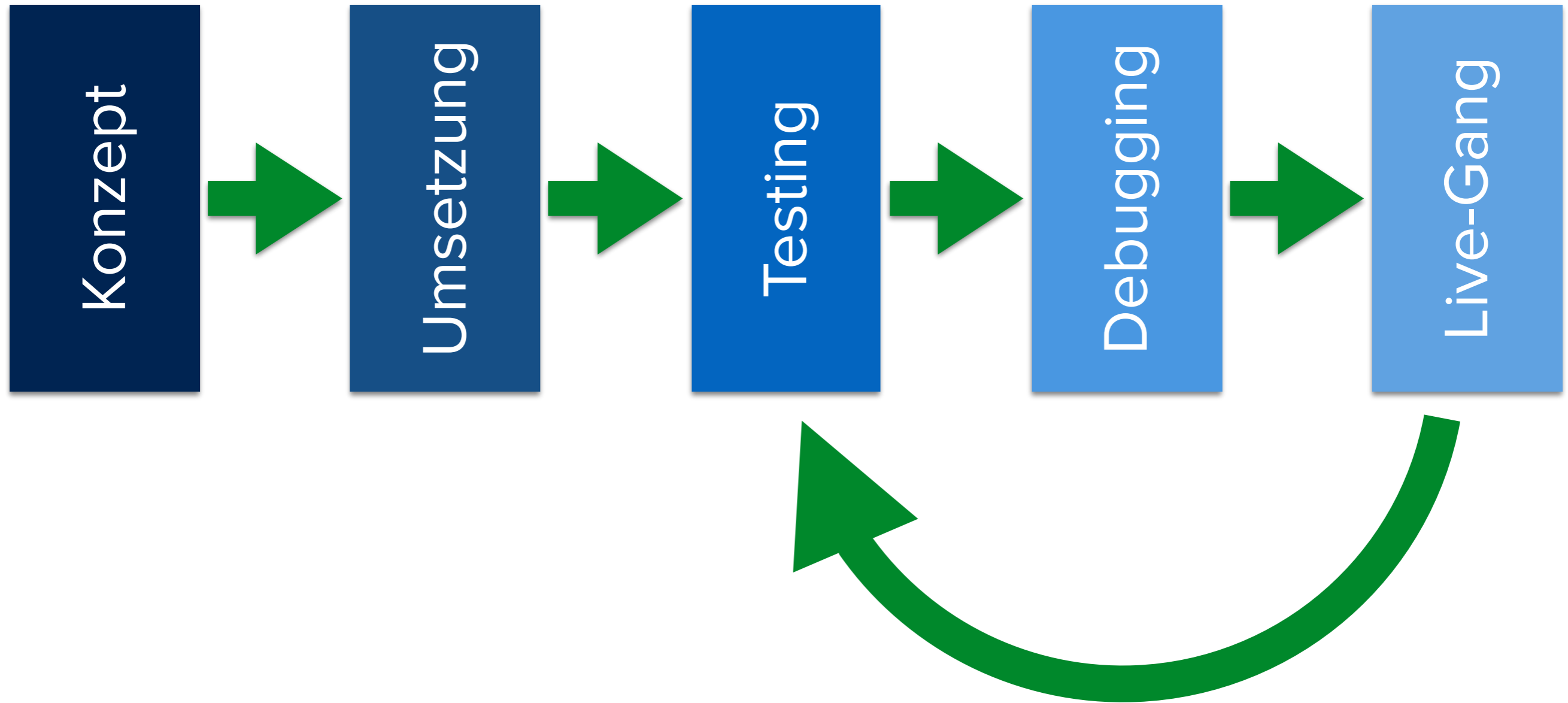
Wie?

...heute egal...

Testing & Debugging

Prozess der Umsetzung

DMA



❁ Testing

- ❁ Auffinden und Lokalisieren von Fehlern
- ❁ Durchgeführt durch das Test-Team
- ❁ Intention: Möglichst viele Fehler finden

❁ Debugging

- ❁ Beheben von Fehlern
- ❁ Durchgeführt durch das Entwickler-Team
- ❁ Intention: die gefundenen Fehler beheben

Testing

Testing des Layouts

Debugging

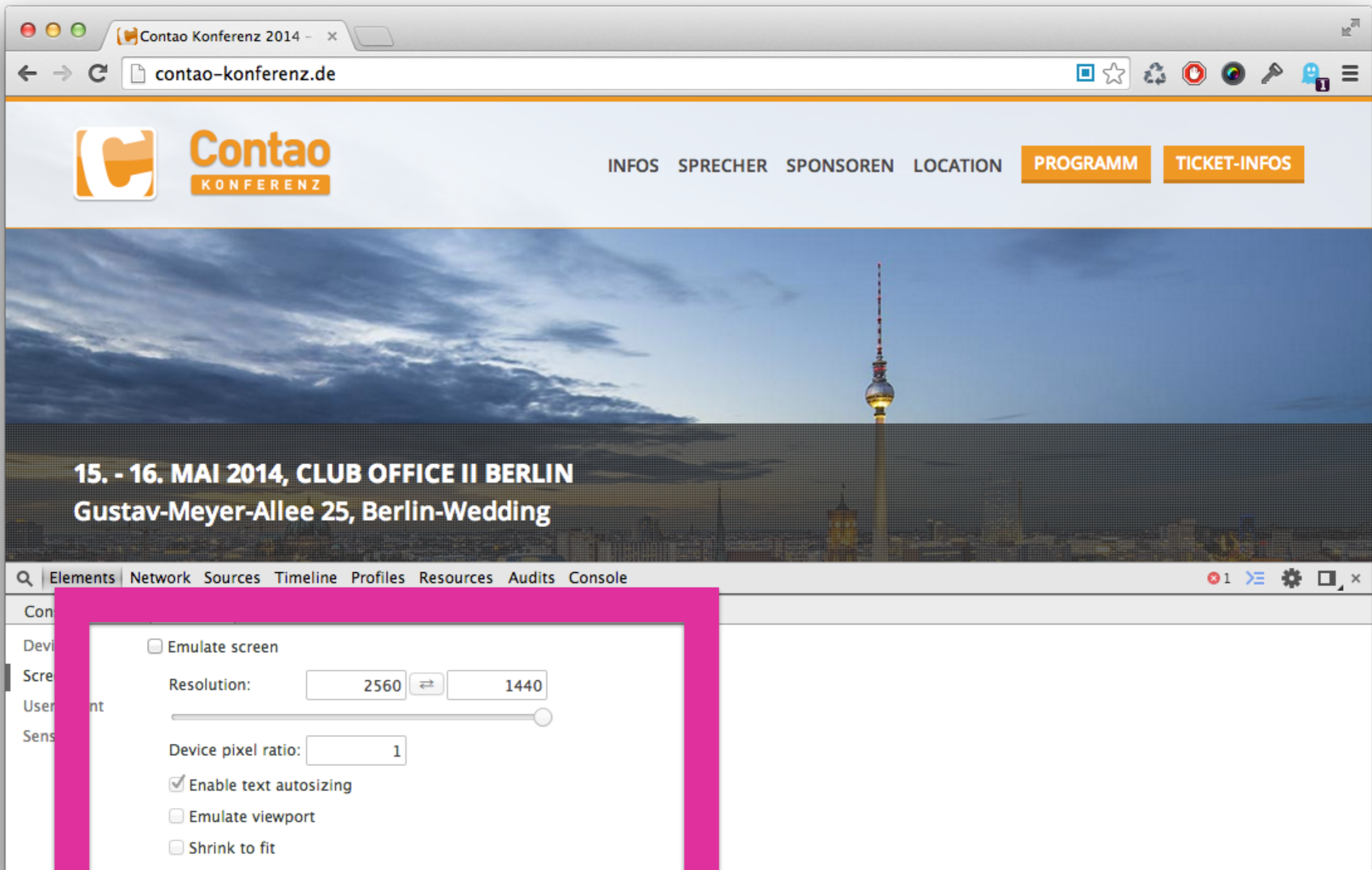
DMA

✿ Responsive/Adaptive umgesetzt Seite

✿ Resize-Tools

Resizing

Resize im Browser



Resize im Browser

The image shows a browser window displaying the website 'contao-konferenz.de'. The browser's developer tools are open, and the 'Emulate screen' panel is highlighted with a pink border. The panel contains the following settings:

- Emulate screen
- Resolution: 600 ⇄ 400
- Device pixel ratio: 1
- Enable text autosizing
- Emulate viewport
- Shrink to fit

The website content includes a logo for 'Contao KONFERENZ' and a large image of a city skyline at dusk.

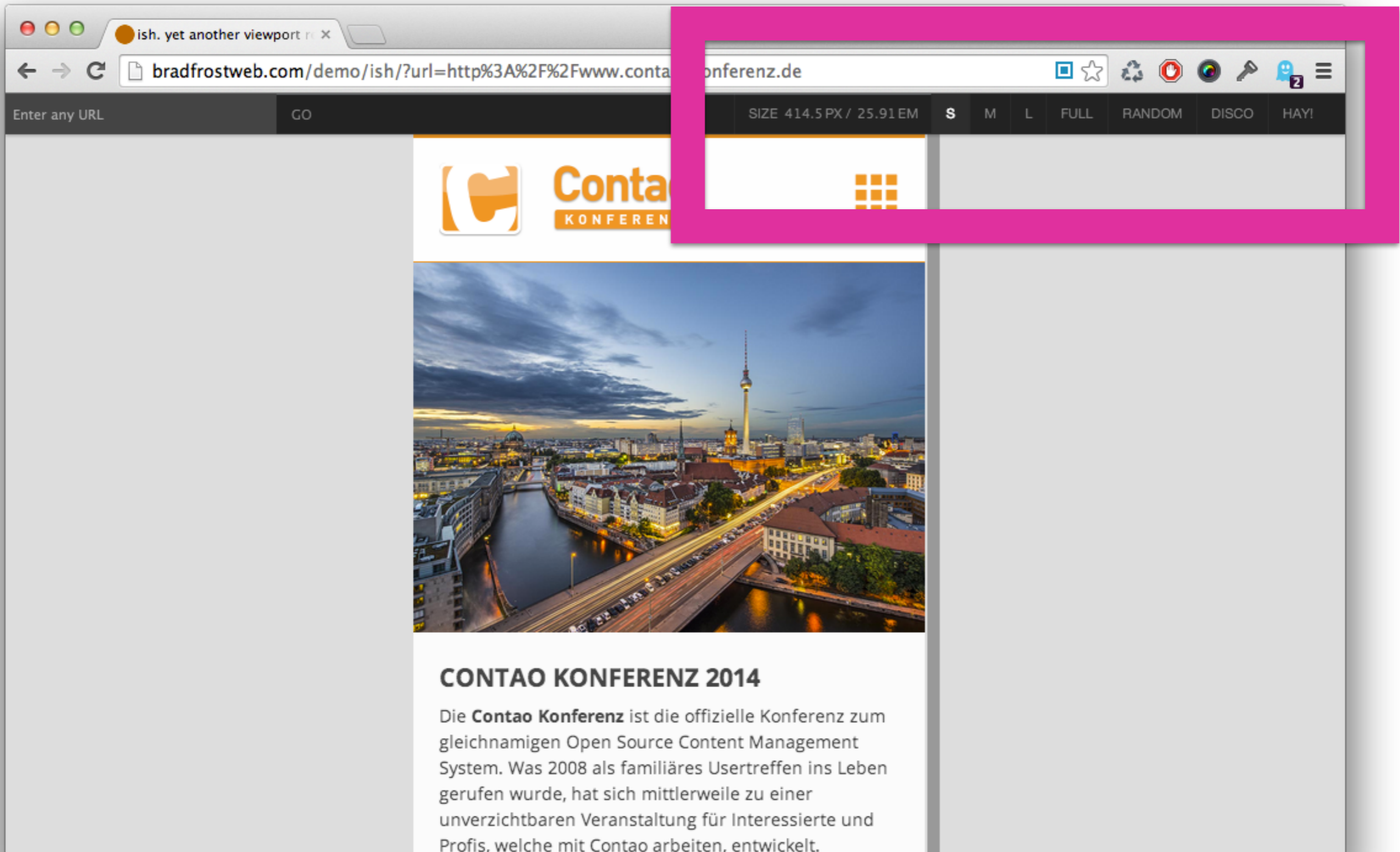
ISH

Resize-Tools

DMA

The image shows a browser window with a website. The browser's address bar contains the URL `bradfrostweb.com/demo/ish/?url=http%3A%2F%2Fwww.conta...onferenz.de`. A pink rectangular overlay highlights a toolbar with the following elements: a 'SIZE' field showing '1073 PX / 67.06 EM', and buttons for 'S', 'M', 'L', 'FULL', 'RANDOM', 'DISCO', and 'HAY!'. Below the toolbar, the website header features the 'Contao KONFERENZ' logo and navigation links: 'INFOS', 'SP...HER', 'SPONSOREN', 'LOCATION', 'PROGRAMM', and 'TICKET-INFO'. The main content area displays a night-time photograph of a city skyline with the TV Tower (Fernsehturm) as the central focus. At the bottom of the image, white text on a dark background reads: '15. - 16. MAI 2014, CLUB OFFICE II BERLIN' and 'Gustav-Meyer-Allee 25, Berlin-Wedding'.

Resize-Tools



ish. yet another viewport

bradfrostweb.com/demo/ish/?url=http%3A%2F%2Fwww.contao-konferenz.de#hay

Enter any URL GO SIZE 388 PX / 24.25 EM S M L FULL RANDOM DISCO HAY!

 **Contao**
KONFERENZ 

PROGRAMMÜBERSICHT
Die Themen der Contao Konferenz 2014

Weitere Programmpunkte werden wir euch in den nächsten Tagen vorstellen.

14. Mai (Mittwoch)
Get Together im Club Office ab 19.00 Uhr

15. Mai (Donnerstag)

Uhrzeit	Main Stage	Raum #1	Raum #2
09:00 Uhr - 10:00 Uhr			

Debugging

DMA

✿ Responsive/Adaptive umgesetzt Seite

✿ Resize-Tools

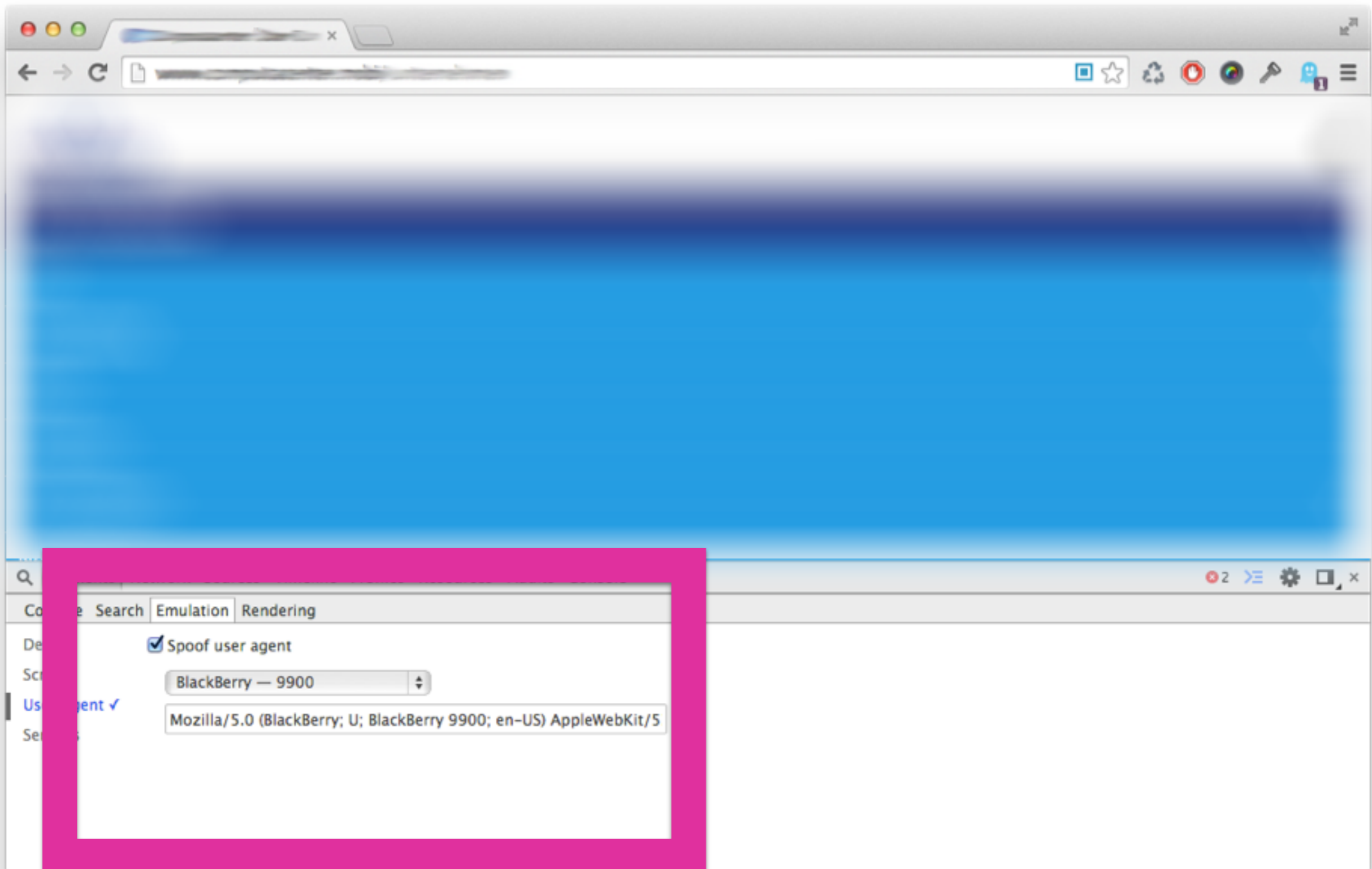
✿ M-Dot-Seite

✿ User-Agent-Switcher

User-Agent Switching

User-Agent Switch

DMA



Testing auf den Geräten

Browser	Platform				
Chrome	Windows XP				
Firefox	Windows XP				
Internet Explorer 10	Windows 7				
Internet Explorer 9	Windows 7				
Internet Explorer 8	Windows XP				
Internet Explorer 7	Windows Vista				
Chrome	OS X				
Firefox	OS X				
Safari	OS X				

Testing

Gerät	Plattform	OS Version	Breite (P)	Breite (L)	Release
Acer Iconia Tab A1-810	Android	4.2.2	768	1024	2013-05
Acer Iconia Tab A100	Android	4.0.3	800	1280	2011-04
Acer Iconia Tab A101	Android	3.2.1	600	1024	2011-05
Acer Iconia Tab A200	Android	4.0.3	800	1280	2012-01
Acer Iconia Tab A500	Android	4.0.3	648	1280	2011-04
Acer Iconia Tab A501	Android	3.2	800	1280	2011-04
ACER Liquid E2	Android	4.2.1	360	640	2013-05
Ainol Novo 7 Elf 2	Android	4.0.3	496	1024	2012-06
Alcatel One Touch Idol X	Android	4.2.2	480	800	2013-07
Alcatel One Touch T10	Android	4.0.3	480	800	2013-03
Alcatel One Touch 903	Android	2.3.6	320	427	2012-08
Alcatel (Vodafone) Smart Mini 875	Android	4.1.1	320	480	2013-07
Amicroe 7 TouchTAB II	Android	4.0.4	480	800	2013-01
Amicroe 9.7 TouchTAB IV	Android	4.1.1	768	1024	2013-05
Archos 70b (it2)	Android	3.2.1	600	1024	2012-02
Archos 80G9	Android	3.2	768	1024	2011-09
Arnova 10b G3	Android	4.0.3	600	1024	2012-05
Arnova 7 G2	Android	2.3.1	480	800	2011-09
Arnova 7F G3	Android	4.0.3	640	1067	2012-11
Arnova 8C G3	Android	4.0.3	800	1067	2012-11
ASUS Eee Pad Transformer	Android	4.1.2	600	1024	2012-04

- ❁ Beachtet die aktuellen Analytics-Zahlen der Website. Falls keine vorhanden sind, sucht nach vergleichbaren.
- ❁ Versucht die Anzahl auf so wenige explizit erwähnte Geräte/Versionen wie möglich zu beschränken.

„...im mobilen Bereich werden die folgenden Geräte explizit unterstützt: Safari unter iOS 7 auf dem iPhone4/5 und iPad, Chrome auf Android-Geräten ab Android 4.1, nativer Internet-Browser auf Android 2.3-Geräten... Weitere Geräte werden nicht explizit getestet.“

- ❁ Beachtet die aktuellen Analytics-Zahlen der Website. Falls keine vorhanden sind, sucht nach vergleichbaren.
- ❁ Versucht die Anzahl auf so wenige explizit erwähnte Geräte/Versionen wie möglich zu beschränken.
- ❁ Sorgt dafür, dass ihr die vereinbarten Geräte auch selber testen könnt.

Legt mit dem Kunden
zusammen fest, welche Geräte
explizit unterstützt werden
sollen!

- ❁ eigene Geräte

- ❁ Stephanie Rieger: Existing traffic, Regional traffic and market, Device-specific factors, Project-specific factors, Budget

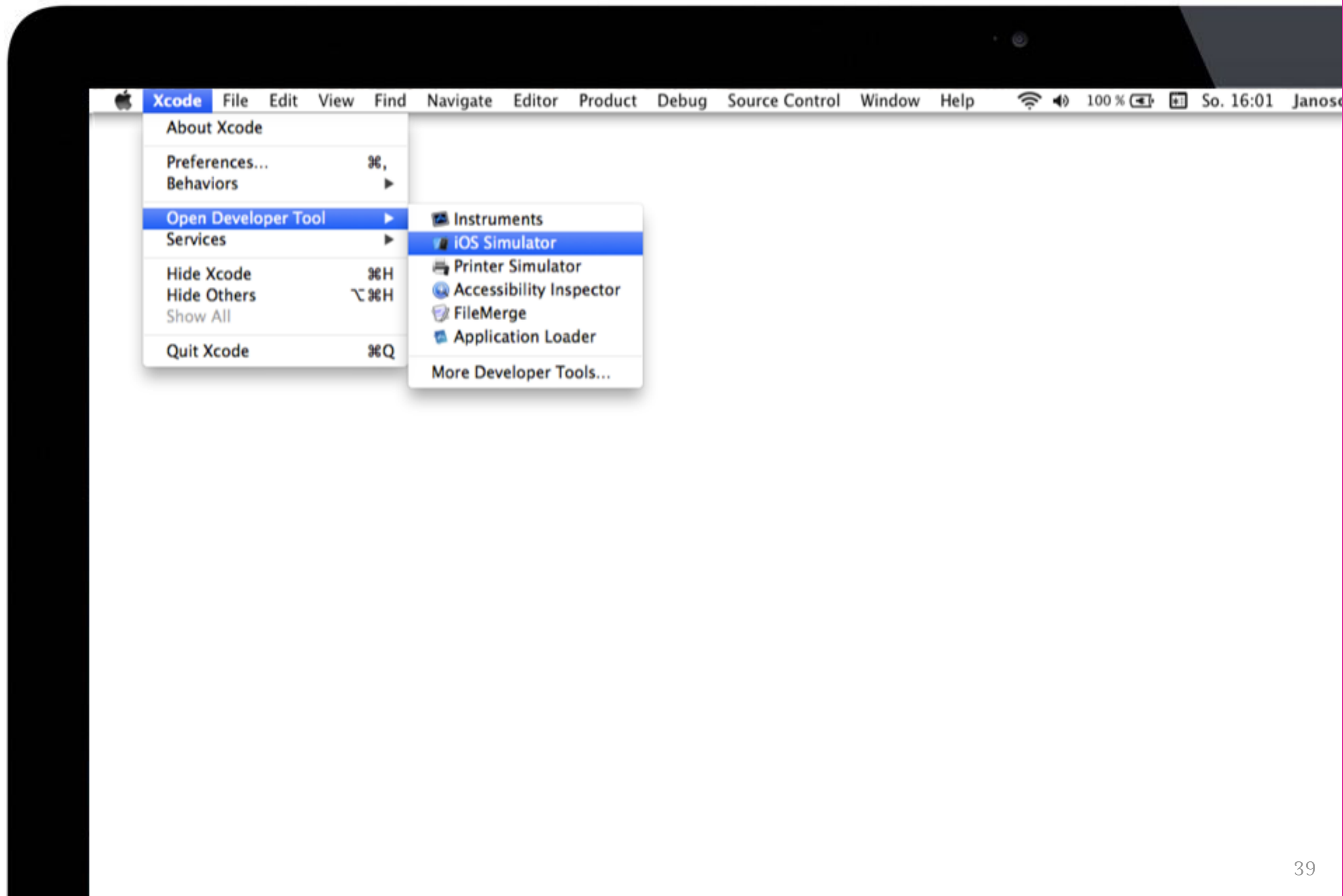
- ❁ Brad Frost: „Own the popular“

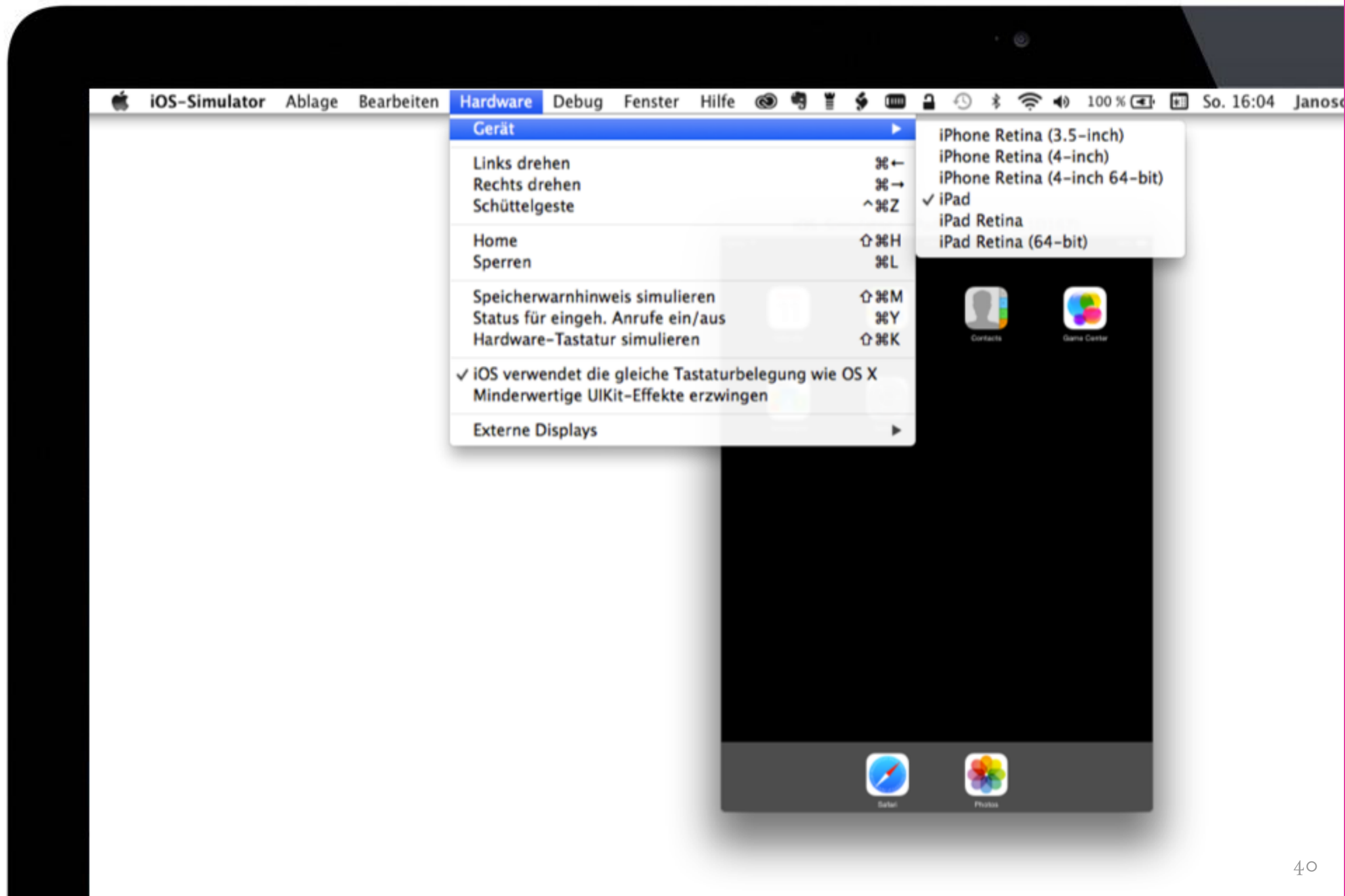
- ❁ Simulator/Emulator

iOS Simulator

iOS Simulator

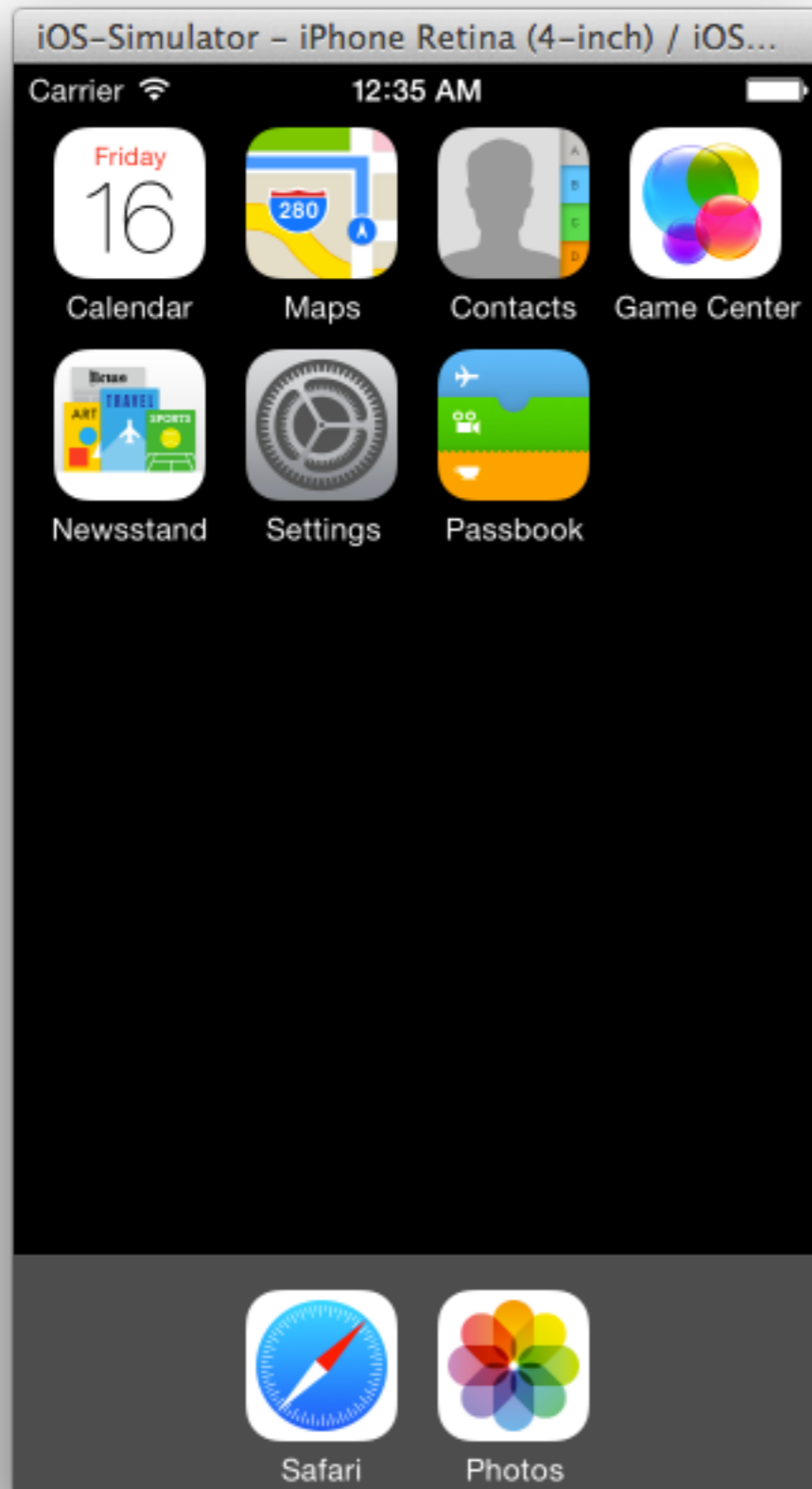
DMA





iOS Simulator

DMA



OS X only!

https://developer.apple.com/documentation/IDEs/Conceptual/iOS_Simulator_Guide/Introduction/Introduction.html

Android Simulator

Android Simulator

DMA

Android Virtual Device Manager

Android Virtual Devices | Device Definitions

List of existing Android Virtual Devices located at /Volumes/Data/Users/janosch/.android/avd

AVD Name	Target Name	Platform	API Level	CPU/ABI
✓ Galaxy_Nexus_by_Google	Android 4.1.2	4.1.2	16	Intel Atom (x86)
✓ Nexus_4	Android 4.4.2	4.4.2	19	ARM (armeabi-v7a)

Buttons: New..., Edit..., Delete..., Repair..., Details..., Start..., Refresh

Legend:
✓ A valid Android Virtual Device. A repairable Android Virtual Device.
✗ An Android Virtual Device that failed to load. Click 'Details' to see the error.

Background Eclipse interface:
- Title: Eclipse
- Window: Java - Eclipse - /Volumes/Data/Users/janosch/Documents/workspace
- Outline: An outline is not available.
- Console: Saved Filters: All messages (no filters). Search for messages. Accepts Java regexes. Prefix with pid:, app:, tag: or text: to limit scope. verbose

Android Simulator

The screenshot displays the Eclipse IDE environment. The main window is titled "Java - Eclipse - /Volumes/Data/Users/janosch/Documents/workspace". The top toolbar includes various icons for file operations and system status. The "Outline" view on the right shows "An outline is not available." The "Android Virtual Device Manager" window is open, showing a list of device definitions. The "Nexus 7 by Google" device is selected. A pink box highlights the "New Device..." and "Clone..." buttons. The "Problems" view at the bottom left shows "All messages (no filters)".

Android Virtual Device Manager

Android Virtual Devices | Device Definitions

List of known device definitions. This can later be used to create Android Virtual Devices.

Device
Galaxy Nexus by Google Screen: 4.7", 720 × 1280, Normal xhdpi RAM: 1024 MiB Used by: Galaxy_Nexus_by_Google
Nexus 10 by Google Screen: 10.1", 2560 × 1600, X-Large xhdpi RAM: 1907 MiB
Nexus 4 by Google Screen: 4.7", 768 × 1280, Normal xhdpi RAM: 1907 MiB
Nexus 5 by Google Screen: 5.0", 1080 × 1920, Normal xxhdpi RAM: 2 GiB
Nexus 7 by Google Screen: 7.0", 1200 × 1920, Large xhdpi RAM: 2 GiB
Nexus 7 (2012) by Google Screen: 7.0", 800 × 1280, Large tvdpi RAM: 1024 MiB

Buttons: New Device..., Clone..., Create AVD..., Refresh

Legend: A user-created device definition. A generic device definition.

Android Simulator

DMA

Java - Eclipse - /Volumes/Data/Users/janosch/Documents/workspace

Quick Access Java

Create new Android Virtual Device (AVD)

AVD Name:

Device:

Target:

CPU/ABI:

Keyboard: Hardware keyboard present

Skin:

Front Camera:

Back Camera:

Memory Options: RAM: VM Heap:

Internal Storage:

SD Card:

Size:

File:

Emulation Options: Snapshot Use Host GPU

Override the existing AVD with the same name

✘ AVD Name cannot be empty

Problems @ Javadoc Decl

Saved Filters

All messages (no filters)

Lev	Time	PID	TID	Application	Tag	Text
D	05-11 10:30:22.688	3275	3282		dalvikvm	Debugger has detached; object registry had 1 entries
E			-1			Device disconnected: 1
E			-1			Device disconnected

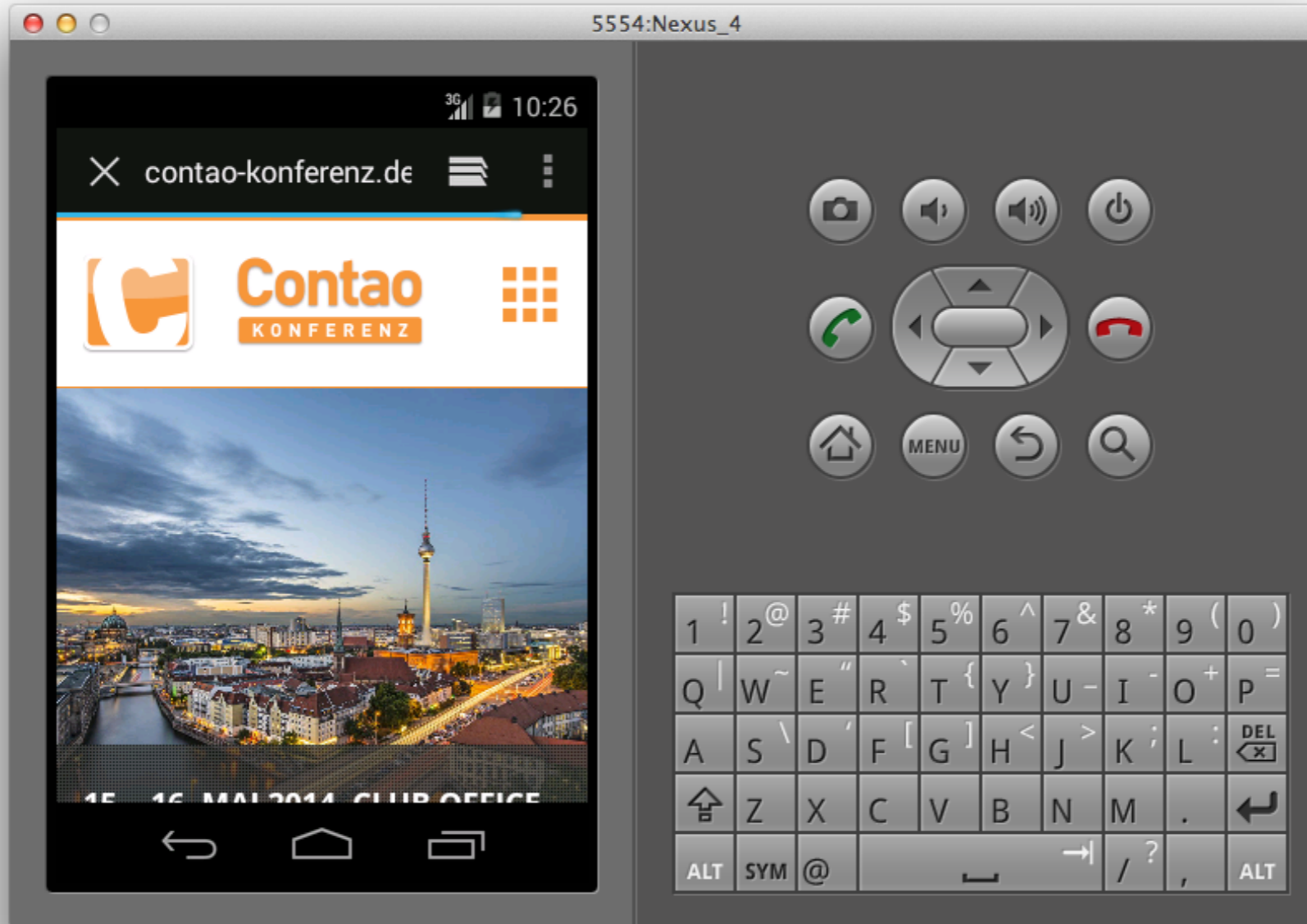
verbose

Android Simulator

DMA

emulator64-arm Window

System tray icons: notification, bluetooth, network, volume, 100% battery, So. 16:27, Janosch Skuplik, search, menu

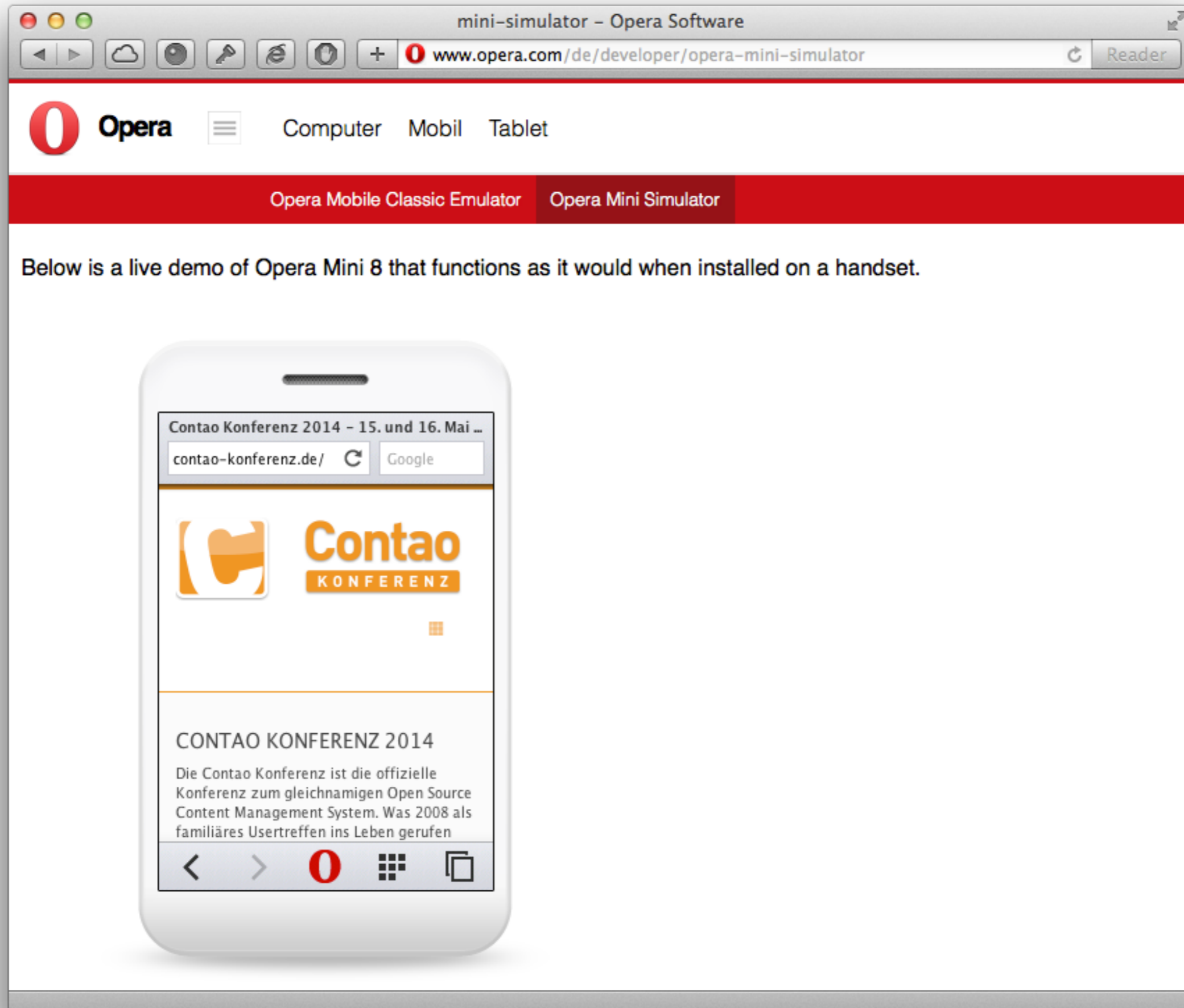


<http://developer.android.com/tools/help/emulator.html>

Opera Mini

Opera Mini

DMA



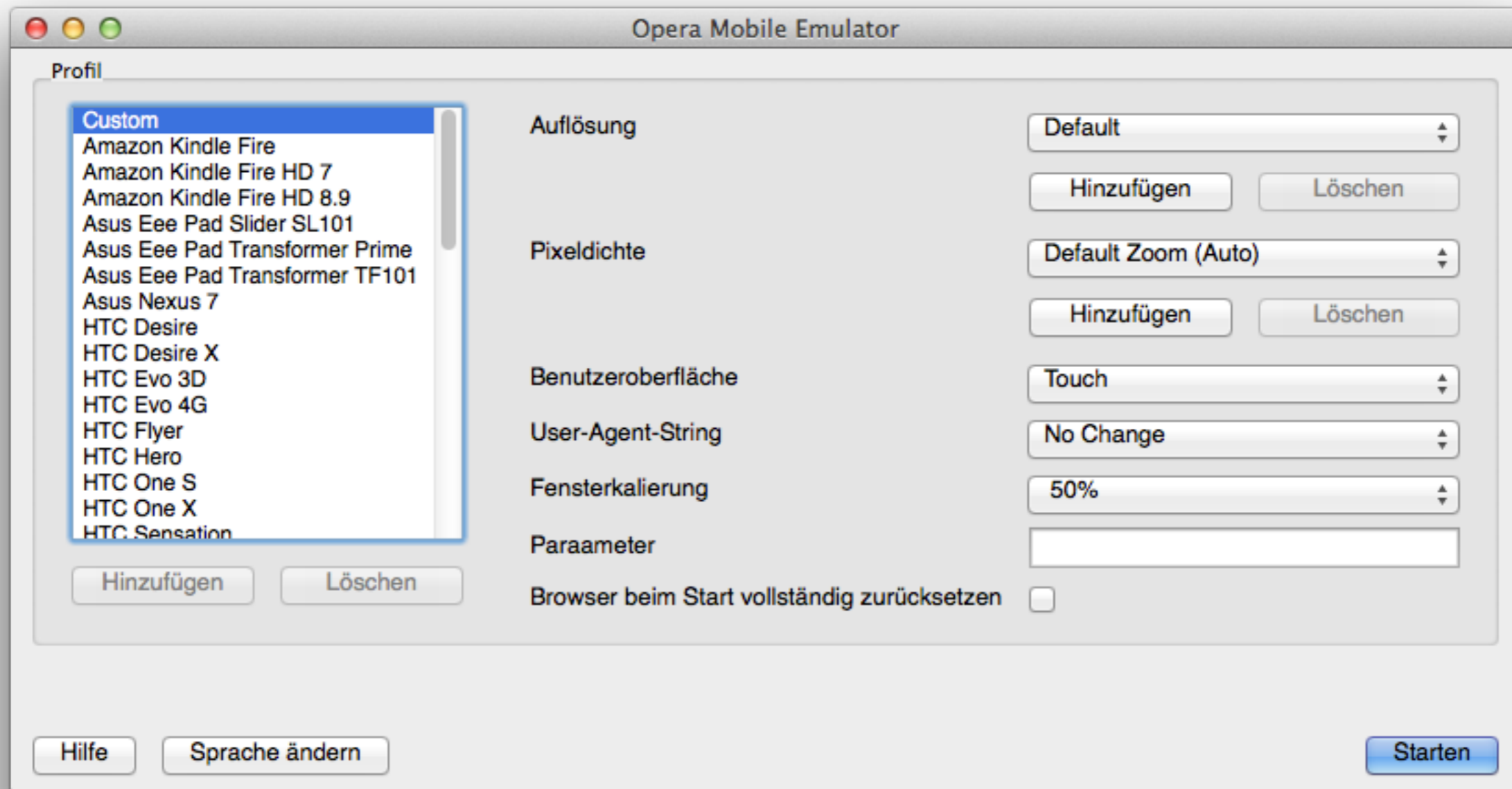
The screenshot shows a desktop browser window titled "mini-simulator - Opera Software". The address bar contains the URL "www.opera.com/de/developer/opera-mini-simulator". The page header features the Opera logo and navigation links for "Computer", "Mobil", and "Tablet". A red navigation bar highlights "Opera Mobile Classic Emulator" and "Opera Mini Simulator". Below this, a text block states: "Below is a live demo of Opera Mini 8 that functions as it would when installed on a handset." The main content is a simulated smartphone screen displaying a mobile website for "Contao Konferenz 2014". The website includes a search bar with "contao-konferenz.de/" and "Google", the Contao logo, and a brief description of the conference. The bottom of the phone screen shows a navigation bar with back, forward, and home icons.

<http://www.opera.com/de/developer/opera-mini-simulator>

Opera Mobile

Opera Mobile

DMA





<http://www.opera.com/de/developer/mobile-emulator>

- ❁ eigene Geräte

 - ❁ Stephanie Rieger: Existing traffic, Regional traffic and market, Device-specific factors, Project-specific factors, Budget

 - ❁ Brad Frost: „Own the popular“

- ❁ Simulator/Emulator

- ❁ Verleih-Service

- ❁ Remote Testing-Service

Rapidly test your website for compatibility across 300+ browsers in the cloud.

Enter a URL

History ▾

To test your internal web server or design files, setup local testing.

Start local testing

or Use binaries

Select browsers

OS	Browser	Version	Resolution	Device
iOS	v5 iPad 2	v5.1 iPhone 4S iPad 3	v6 iPhone 4S iPhone 5 iPad 3 iPad Mini	v7 iPhone 5S iPad 3rd
	Amazon	Samsung	HTC	HTC
Android	HTC	HTC	HTC	HTC
	HTC	HTC	HTC	HTC
Windows XP	Internet Explorer 6	Internet Explorer 7	Internet Explorer 8	Internet Explorer 9
	Internet Explorer 6	Internet Explorer 7	Internet Explorer 8	Internet Explorer 9
Windows 7	Internet Explorer 8 9 10 11	Internet Explorer 3.6 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Chrome 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Opera 11.6 12.10 12.14 12.15 12.16
	Internet Explorer 8 9 10 11	Internet Explorer 3.6 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Chrome 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Opera 11.6 12.10 12.14 12.15 12.16
Windows 8	Internet Explorer 10 Desktop	Internet Explorer 16 17 18 19 20 21 22 23 24 25	Chrome 22 23 24 25 26 27 28 29 30 31	Opera 12 12.10 12.14 12.15 12.16
	Internet Explorer 10 Desktop	Internet Explorer 16 17 18 19 20 21 22 23 24 25	Chrome 22 23 24 25 26 27 28 29 30 31	Opera 12 12.10 12.14 12.15 12.16
Windows 8.1	Internet Explorer 11 Desktop	Internet Explorer 16 17 18 19 20 21 22 23 24 25	Chrome 22 23 24 25 26 27 28 29 30 31	Opera 12 12.10 12.14 12.15 12.16
	Internet Explorer 11 Desktop	Internet Explorer 16 17 18 19 20 21 22 23 24 25	Chrome 22 23 24 25 26 27 28 29 30 31	Opera 12 12.10 12.14 12.15 12.16
Mac OS X Snow Leopard	Internet Explorer 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Internet Explorer 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Chrome 14 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Opera 11.6 12 12.12 12.14 12.15
	Internet Explorer 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Internet Explorer 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25	Chrome 14 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Opera 11.6 12 12.12 12.14 12.15
Mac OS X Lion	Internet Explorer 3.6 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Internet Explorer 3.6 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Chrome 14 16 17 18 19 20 21 22 23 24 25 26 27 28	Opera 11.6 12 12.12 12.14 12.15
	Internet Explorer 3.6 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Internet Explorer 3.6 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Chrome 14 16 17 18 19 20 21 22 23 24 25 26 27 28	Opera 11.6 12 12.12 12.14 12.15

www.browserstack.com

342 Device/OS/Browser Platforms

ios



sauselabs.com



	7.0		7.0
	6.1		6.1
	6.0		6.0
	5.1		5.1
	5.0		5.0
	4		4

Automate your test!

- 1) Define the browser
- 2) Enter a platform and version.

Can't find your browser?

Change 'webdriver' to 'selenium'

WebDriver ▾

python ▾



- 3) [Copy](#) Code.

- ❁ eigene Geräte

 - ❁ Stephanie Rieger: Existing traffic, Regional traffic and market, Device-specific factors, Project-specific factors, Budget

 - ❁ Brad Frost: „Own the popular“

- ❁ Simulator/Emulator

- ❁ Verleih-Service

- ❁ Remote Testing-Service

- ❁ Expert Review

Mobile-Testing-Report mdc-gmbh.de

generelle Optimierungen

JavaScript könnte optimiert werden. Beim Laden einer Seite wird das Hauptmenü immer erst komplett angezeigt
Impressum: Copyright ist laut Indikator geöffnet, Inhalt wird aber nicht angezeigt

iPhone 5s, iOS 7.1

keine Auffälligkeiten

iPhone 4, iOS 6.1

keine Auffälligkeiten

Samsung Galaxy S2, Android 4.1

Default Browser

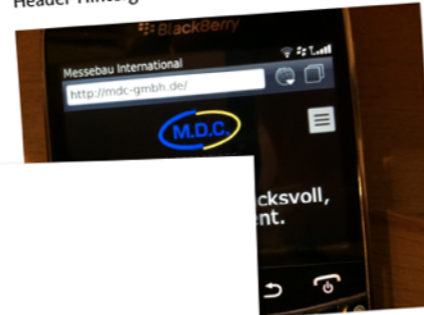


Windows Phone 8

keine Auffälligkeiten

BlackBerry 9900, BlackBerry 7.1

Header-Hintergrund auf der Startseite wird nicht angezeigt



Firefox

keine Auffälligkeiten

die meiner Meinung nach über



- ❁ eigene Geräte

 - ❁ Stephanie Rieger: Existing traffic, Regional traffic and market, Device-specific factors, Project-specific factors, Budget

 - ❁ Brad Frost: „Own the popular“

- ❁ Simulator/Emulator

- ❁ Verleih-Service

- ❁ Remote Testing-Service

- ❁ Expert Review

- ❁ Device Labs

Open Device Labs

DMA



1. Apple iPhone 5s
2. Apple iPhone 4
3. Apple iPhone 3GS
4. Apple iPad Mini
5. Apple iPad
6. Google Next
7. Samsung Galaxy
8. Motorola Milestone
9. BlackBerry
10. WindowsPhone 8
11. WindowsPhone 7

Coming soon!



Ergebnis der Test- Phase

Testingergebnis

The image shows a JIRA issue navigator and an Excel spreadsheet. The JIRA interface displays a filter for 'High priority for 2.0' with a list of issues. The Excel spreadsheet lists book requests with keys like BOOK-129 and assignees like Alyce Tinyow.

JIRA Issue Navigator: High priority for 2.0

T	Key	Summary	Assignee	Reporter	P	Status	Resolution	Created	Updated	Due
	ANGRY-232	Housecleaning crew didn't finish the job	Unassigned	penny		Open	Unresolved	14/Sep/12	17/Sep/12	
	ANGRY-226	My archived issue	Edwin Wong	Edwin Wong		Closed	Fixed	02/Aug/12	18/Oct/12	
	ANGRY-186	ANGRY-148 / This is the first sub task	Unassigned	Michael Tokar		Open	Unresolved	19/Jul/12	18/Oct/12	
	ANGRY-168	ANGRY-163 / Cancel button look and feel.	Unassigned	Christina Bang		Open	Unresolved	15/May/12	09/Aug/12	
	ANGRY-163	As a user, I should be able to hit 'cancel' in addition to 'submit'.	Christina Bang	Ken Olofsen		In Progress	Unresolved	04/May/12	16/Jun/12	10/Jun/12
	ANGRY-156	ANGRY-132 / Decide on new score for bricks	Bryan Rollins	Bryan Rollins		In QA Review	Fixed	15/Apr/12	15/Apr/12	
	ANGRY-148	Flip sometimes leaves bug upside down on chair	Christina Bang	Penny		Open	Unresolved	08/Mar/12	18/Oct/12	
	ANGRY-121	bricks are falling down inconsistently	Unassigned	Roy Krishna		Open	Unresolved	20/Jan/12	18/Oct/12	
	ANGRY-102	Economic Voting	Ross Chaldecott	Roy Krishna		ToDo	Unresolved	31/Oct/11	15/Feb/12	
	ANGRY-87	ANGRY-85 / subby	Unassigned	Roy Krishna		Open	Unresolved	12/Sep/11	09/Aug/12	
	ANGRY-85	My second issue created via REST	Unassigned	Bryan Rollins		Open	Unresolved	06/Sep/11	18/Oct/12	
	ANGRY-71	Level 6 looks the same as level 5	Peter Obara	Ken Olofsen		In Progress	Unresolved	06/Jun/11	18/Oct/12	
	ANGRY-67	As a nerd, I can flip in a chair while waiting to be shot into the air	Scott	Edwin Wong		Waiting for QA	Fixed	04/Jun/11	18/Oct/12	
	ANGRY-62	As a customer, I want an awesome time with the nerds	Edwin Wong	Edwin Wong		Waiting for QA	Fixed	03/Jun/11	16/Sep/11	
	ANGRY-45	The nerd flies too fast	Roy Krishna	Edwin Wong		Resolved	Fixed	02/Jun/11	29/Feb/12	
	ANGRY-41	I don't like the yellow sun	Ross Chaldecott	Edwin Wong		Open	Unresolved	02/Jun/11	18/Oct/12	
	ANGRY-34	As a customer, I want a to play a great game with Angry Nerds	Edwin Wong	Edwin Wong		Waiting for QA	Fixed	02/Jun/11	15/Apr/12	

Excel Spreadsheet: Atlassian JIRA Extranet - Special Projects

Issue Type	Key	Summary	Assignee
Book Request	BOOK-129	The One Minute Manager - Blanchard & Johnson	Alyce Tinyow
Book Request	BOOK-128	Java Persistence with Hibernate by Christian Bauer and Gavin King	Alyce Tinyow
Book Request	BOOK-127	Beginning iPhone Development: Exploring the iPhone SDK (Paperback)	Alyce Tinyow
Book Request	BOOK-126	Please order 10 copies of Mike Cohn's "User Stories Applied"	Alyce Tinyow
Book Request	BOOK-125	The Web Application Hacker's Handbook: Discovering and Exploiting Security Flaws (Paperback)	Alyce Tinyow
Book Request	BOOK-124	Groundswell	Alyce Tinyow
Book Request	BOOK-123	Web Security Testing Cookbook	Alyce Tinyow
Book Request	BOOK-122	Book request, Pulling Strings with Puppet	Alyce Tinyow
Book Request	BOOK-121	Book request, Automating Linux System Administration	Alyce Tinyow
Book Request	BOOK-120	Please order 4 (four) copies of "Do you Matter: How Great Design will make People Love your Company" for Design Team	Alyce Tinyow
Book Request	BOOK-119	User Stories Applied: For Agile Software Development (Addison-Wesley Signature Series) (Paperback)	Alyce Tinyow
Book Request	BOOK-118	Practical API Design	Alyce Tinyow
Book Request	BOOK-117	The First 90 Days: Critical Success Strategies for New Leaders at All Levels	Alyce Tinyow
Book Request	BOOK-116	Adrenaline Junkies and Template Zombies: Understanding Patterns of Project Behavior	Alyce Tinyow
Book Request	BOOK-115	Please order another copy of "Java Power Tools [ILLUSTRATED] (Paperback)"	Alyce Tinyow
Book Request	BOOK-114	Programming-Collective-Intelligence	Alyce Tinyow
Book Request	BOOK-113	Please buy this book!	Alyce Tinyow
Book Request	BOOK-112	SOA Using Java Web Services for IJUG sponsorship	Alyce Tinyow
Book Request	BOOK-111	Quarterly marketing books	Rochell Lopez
Book Request	BOOK-110	2 Copies of Maven: The Definitive Guide	Rochell Lopez
Book Request	BOOK-109	Book request: Greasemonkey Hacks	Alyce Tinyow
Book Request	BOOK-108	The Pragmatic Programmer: From Journeyman to Master (ISBN 0-201-61622-X)	Alyce Tinyow
Book Request	BOOK-107	Request for 'Influence: The Psychology of Persuasion' book by Robert B. Cialdini	Alyce Tinyow
Book Request	BOOK-106	Request for 'Hug Your Customers' book by Jack Mitchell	Alyce Tinyow
Book Request	BOOK-105	Ajax Security by Addison-Wesley Professional	Alyce Tinyow
Book Request	BOOK-104	Network Warrior [ILLUSTRATED] (Paperback)	Alyce Tinyow
Book Request	BOOK-103	Practice of System and Network Administration, The (2nd Edition) (Paperback)	Alyce Tinyow

Debugging

Simulator

Bildet einen Teil eines Systems nach, ohne mit diesem 100% übereinzustimmen.

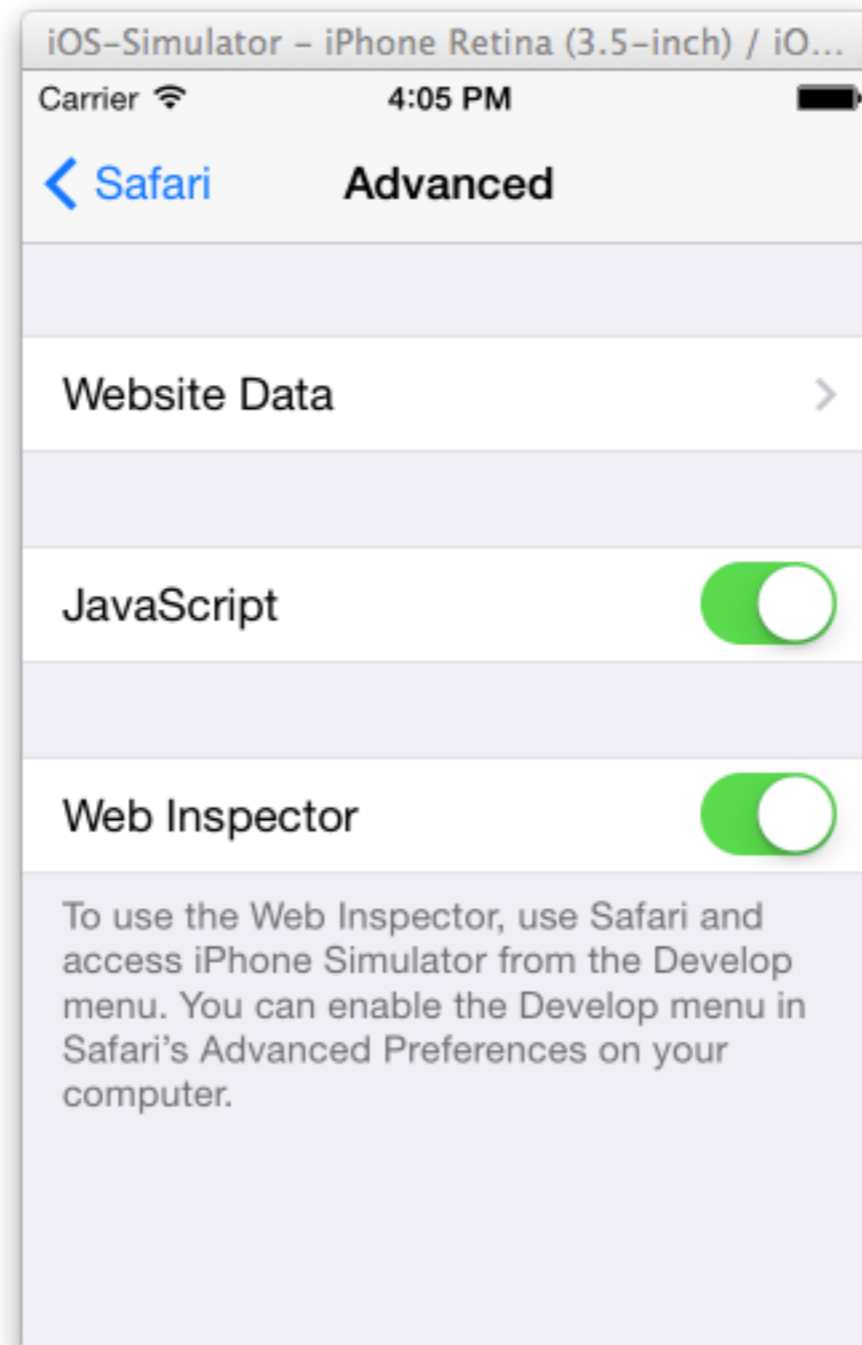
Emulator

Versucht ein System so originalgetreu wie möglich darzustellen.

iOS Simulator

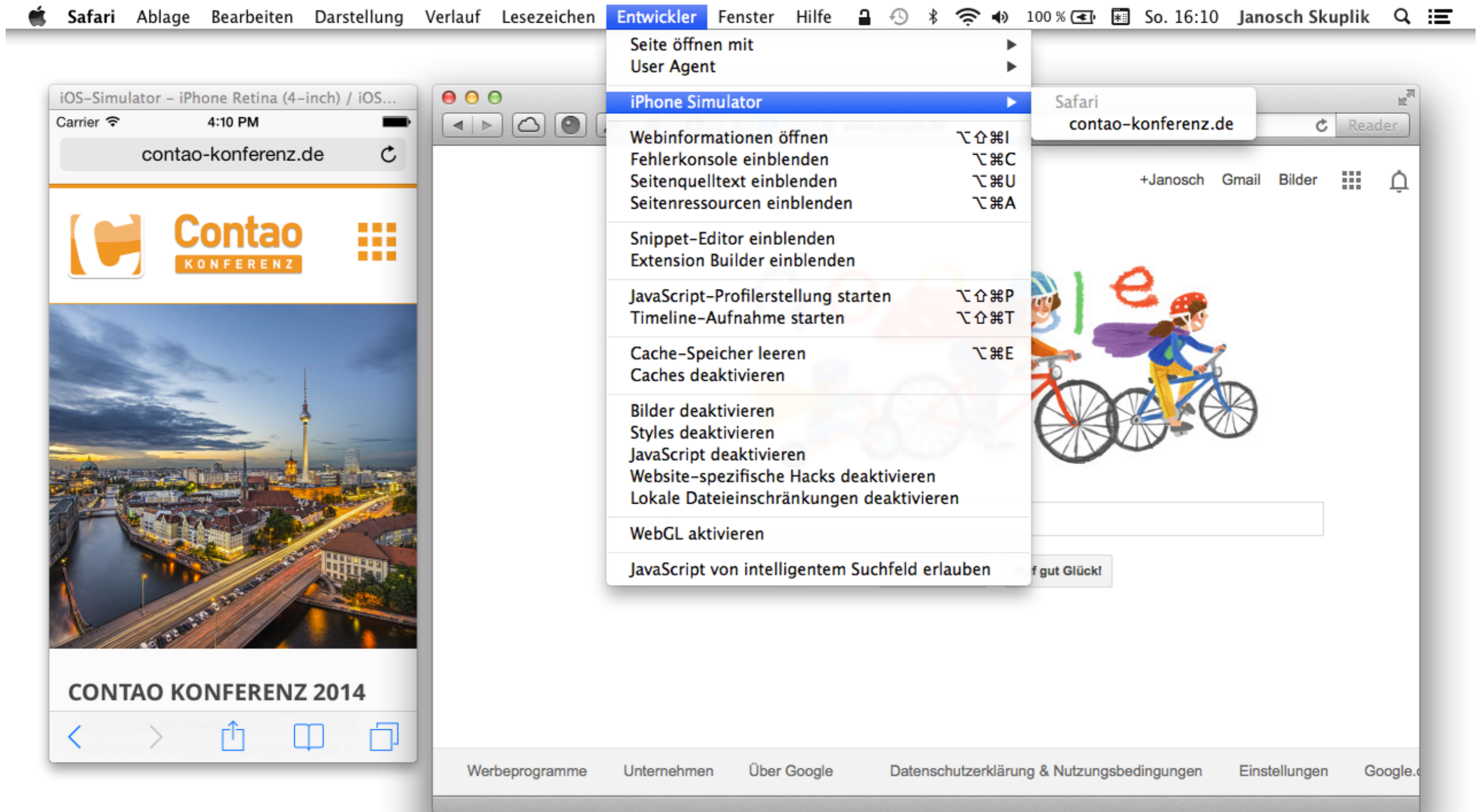
Debugging

DMA

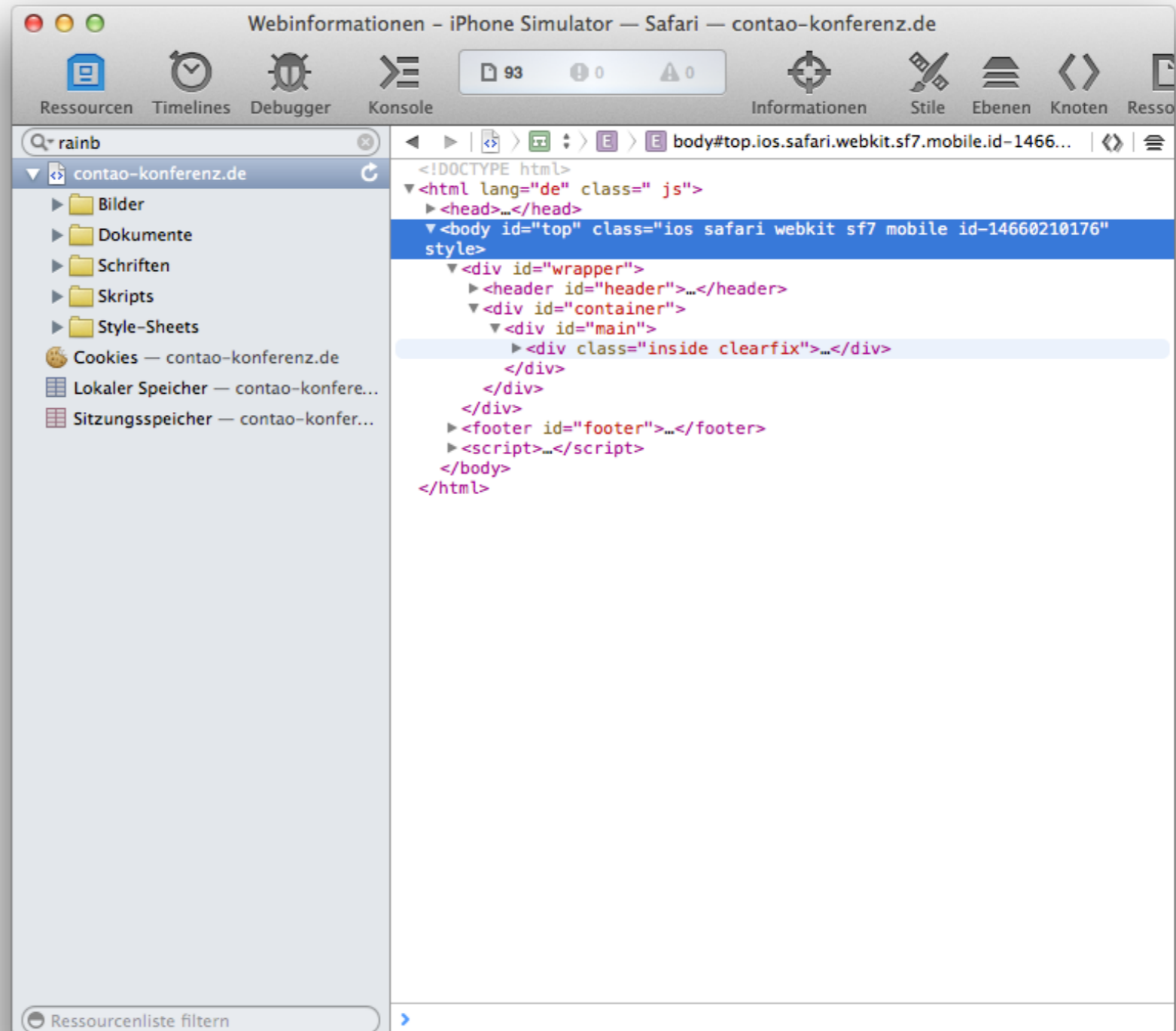


Debugging

DMA



Debugging

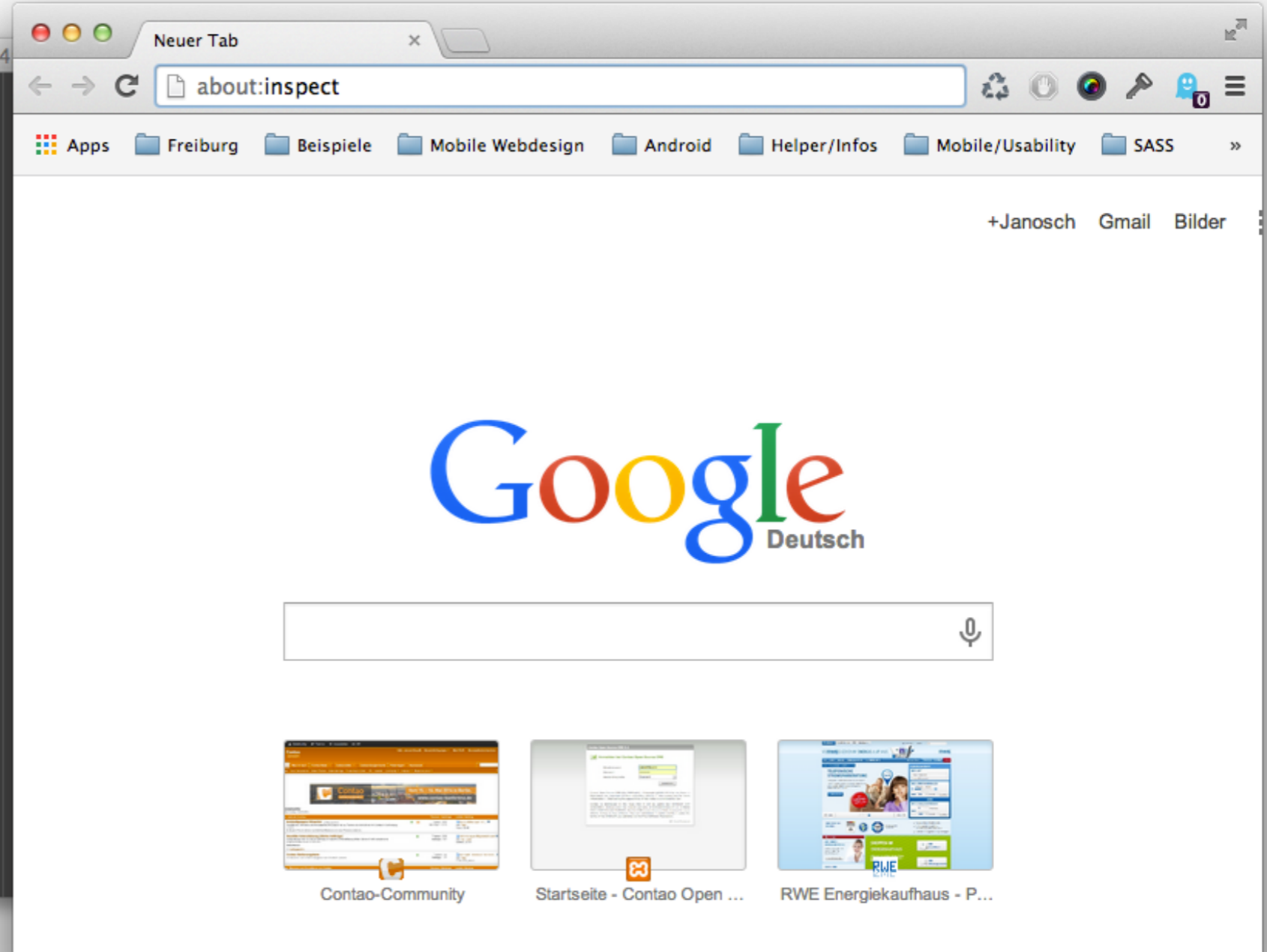


Android Simulator

Debugging

DMA

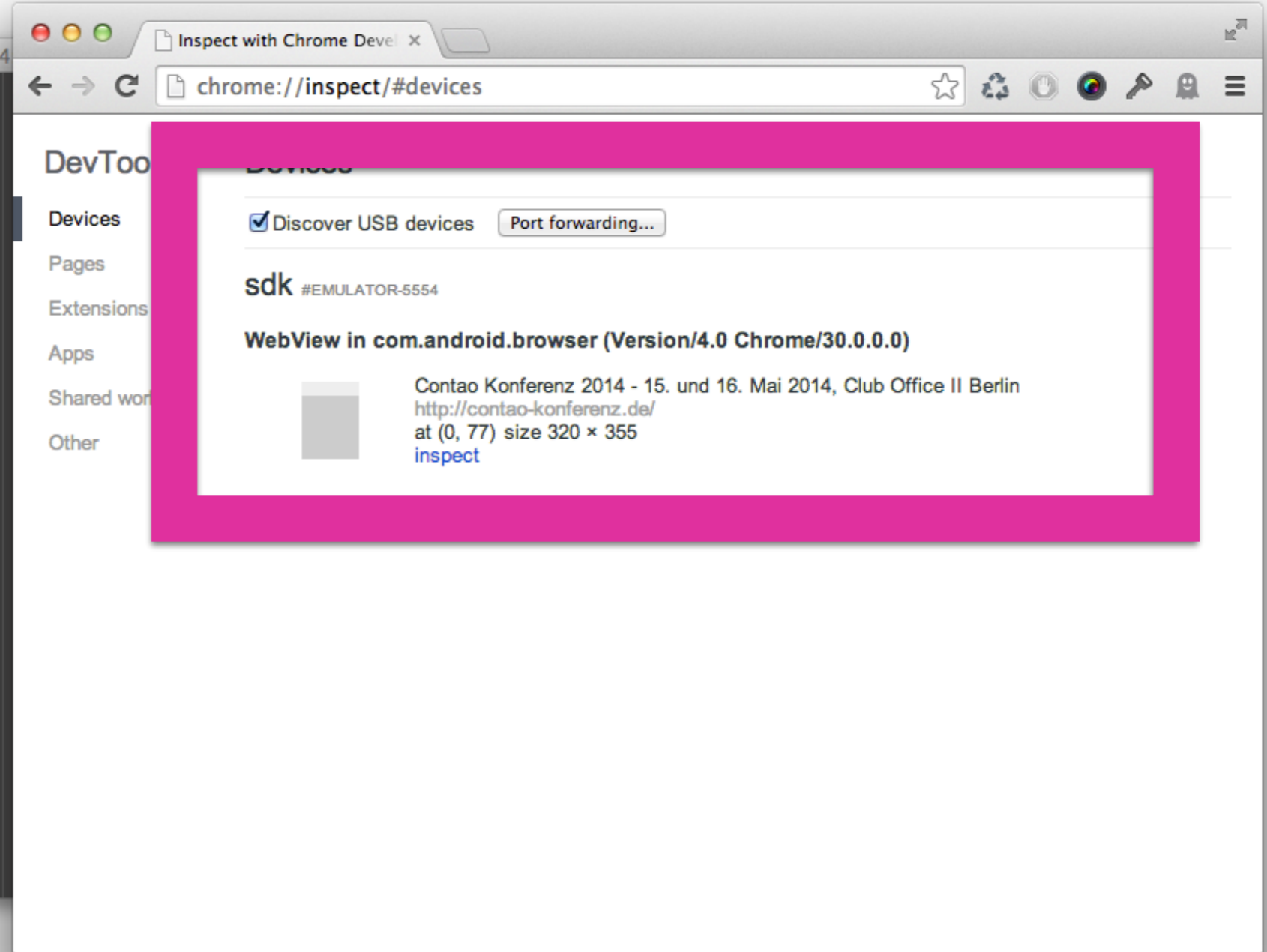
Chrome Datei Bearbeiten Anzeigen Verlauf Lesezeichen Fenster Hilfe 100% So. 16:29 Janosch Skuplik



Debugging

DMA

Chrome Datei Bearbeiten Anzeigen Verlauf Lesezeichen Fenster Hilfe 5554 So. 16:29 Janosch Skuplik



Debugging

DMA

Chrome Datei Bearbeiten Anzeigen Verlauf Lesezeichen Fenster Hilfe 100% So. 16:30 Janosch Skuplik



Developer Tools - http://contao-konferenz.de/

Elements Resources Network Sources Timeline Profiles Audits Console

```
<!DOCTYPE html>
<html lang="de" class=" js">
  <head>...</head>
  <body id="top" class="android chrome webkit ch30 mobile id-14660210176" style="background-color: #fff; color: #000; height: 100%; margin: 0; padding: 0;">
    <div id="wrapper">
      <header id="header">...</header>
      <div id="container">
        <div id="main">...</div>
      </div>
      <footer id="footer">...</footer>
      <script>...</script>
      <span style="position: absolute; left: -999px; top: -999px; visibility: hidden;">...</span>
    </body>
  </html>
```

Styles Computed >>

element.style { }

53fa29c6-collection.css:958 @media screen, projection body { font: normal 14px/1.5 'open_sansregular', Arial, Helvetica, sans-serif; ~~webkit-text-size-adjust: none;~~ color: #454545; }

53fa29c6-collection.css:964 @media screen, projection html, body { height: 100%; }

53fa29c6-collection.css:533 @media screen, projection body, form { margin: 0; padding: 0; }

53fa29c6-collection.css:201 body { margin: 0; }

53fa29c6-collection.css:30 @media screen, projection body { color: #000; background-color: #fff; }

53fa29c6-collection.css:32 @media screen, projection html, body, div, span, applet, object, iframe, h1, h2, h3, h4, h5, h6, p, blockquote, pre, a, abbr, acronym, address, big, cite, code, del, dfn, em, font, imo

html.js body#top.android.chrome.webkit.ch30.mobile.id-14660210176

Opera Mobile

Debugging

DMA

The screenshot shows the Opera Mobile browser interface on a Samsung Galaxy S III. The address bar displays 'opera:debug'. The main content area shows instructions for initiating a remote debugging connection. Below the instructions, there are input fields for 'IP-Adresse' (containing '127.0.0.1') and 'Portnummer' (containing '7001'), followed by a 'Verbinden' button.

Opera Mobile – Samsung Galaxy S III
opera:debug

opera:debug Google

opera:debug

Initiieren Sie eine Remote-Debugging-Verbindung zu [Opera Dragonfly](#) oder anderen kompatiblen Entwicklungswerkzeugen.

Remote-Debugging bietet uneingeschränkten Zugriff auf Ihre gesamte Browser-Sitzung. Verbinden Sie sich nur mit einer vertrauenswürdigen Quelle.

Geben Sie die Remote-Debugger-Informationen manuell ein

IP-Adresse : Portnummer
127.0.0.1 : 7001

Verbinden

Samsung Galaxy S 720x1280 PPI: 306 50%

Entwicklerwerkzeuge

Remote-Debug

Remote-Debug
Warte auf Hostverbindung auf Port 7001.

Remote Debugging abbrechen

Auf dem Remote-Gerät:

1. opera:debug in das Adressfeld eingeben
2. Die IP-Adresse des Gerätes eingeben, auf dem Opera Dragonfly läuft
3. Die Portnummer 7001 eingeben
4. Auf "Verbinden" klicken
5. Nach der Verbindung zu der Seite navigieren, die gedebuggt werden soll

Debugging

DMA

Opera Mobile

Opera Mobile - Samsung Galaxy S III
Contao Konferenz 2014 - 15. und 16. Mai 2014, Club Office II ...
contao-konferenz.de/ Google

CONTAO KONFERENZ 2014

Die **Contao Konferenz** ist die offizielle Konferenz zum gleichnamigen Open Source Content Management System. Was 2008 als familiäres Usertreffen ins Leben gerufen wurde, hat sich mittlerweile zu einer unverzichtbaren Veranstaltung für Interessierte und Profis, welche mit Contao arbeiten, entwickelt.

Es haben sowohl Contao-Interessierte als auch Experten die Möglichkeit, sich über Einsatzgebiete und aktuelle Entwicklungen zu informieren und auszutauschen. Ein Großteil der anwesenden Teilnehmer stammt dabei aus der Online- bzw. Werbebranche, vertritt Agenturen oder tritt als Branchendienstleister auf.

Samsung Galaxy S 720x1280 PPI: 306 50%

Entwicklerwerkzeuge
Contao Konferenz 2014 - 15. und 16. Mai 2014, Cl...

```
<!DOCTYPE html>
<html lang="de">
  <::before>
  <head>
  <body id="top" class="android opera-mobile presto om12 id-14660210176">
    <div id="wrapper">
      <header id="header">
      <div id="container">
        <div id="main">
          <div class="inside clearfix">
            <::before>
            <div class="mod_article freestyle first block" id="landing">
              <div class="mod_article block" id="intro">
                <div class="inside clearfix">
                  <::before>
                    <h2 class="ce_headline col-lg-12 col-md-12 first">
                      <!-- Spaltenset Start -->
                    <section class="ce_colsetStart subcolumns colcount_2 yaml3 col-50x50">
                      <!-- first Column -->
                      <div class="c50l col_1 first">
                        <div class="subcl" style="padding-right:25px;">
                          <div class="ce_text block">
                            <p>
                            </div>
                          </div>
                        </div>
                      <!-- second Column -->
                      <div class="ce_colsetPart c50r col_2 last">
                      </section>
                    <!-- Spaltenset End -->
                  <::after>
                </div>
              </div>
            <div class="mod_article headline-block block" id="programm">
            <div class="mod_article bgr-colored block" id="sprecher">
            <div class="mod_article bordered block">
```

Styles Eigenschaft Layout Listeners Suche
Filter

Computed Style

Styles

.mod_article p { 53fa29c6-collection.css:1084 padding: 8px 0px; }

html, body, div, 53fa29c6-collection.css:39 span, applet, object, iframe, h1, h2, h3, h4, h5, h6, p, blockquote, pre, a, abbr, acronym, address, big, cite, code, del, dfn, em, font, img, ins, kbd, q, s, samp, small, strike, strong, sub, sup, tt, var, dl, dt, dd, ol, ul, li, fieldset, form, label, legend, table, caption, tbody, tfoot, thead, tr, th, td { border: 0px none currentColor; font-style: inherit; font-weight: inherit; margin: 0px; outline: 0px none currentColor; padding: 0px; vertical-align: baseline; }

*, ::before, 53fa29c6-collection.css:980 ::after { box-sizing: border-box; }

p { display: block; margin-bottom: 1em; margin-top: 1em; }

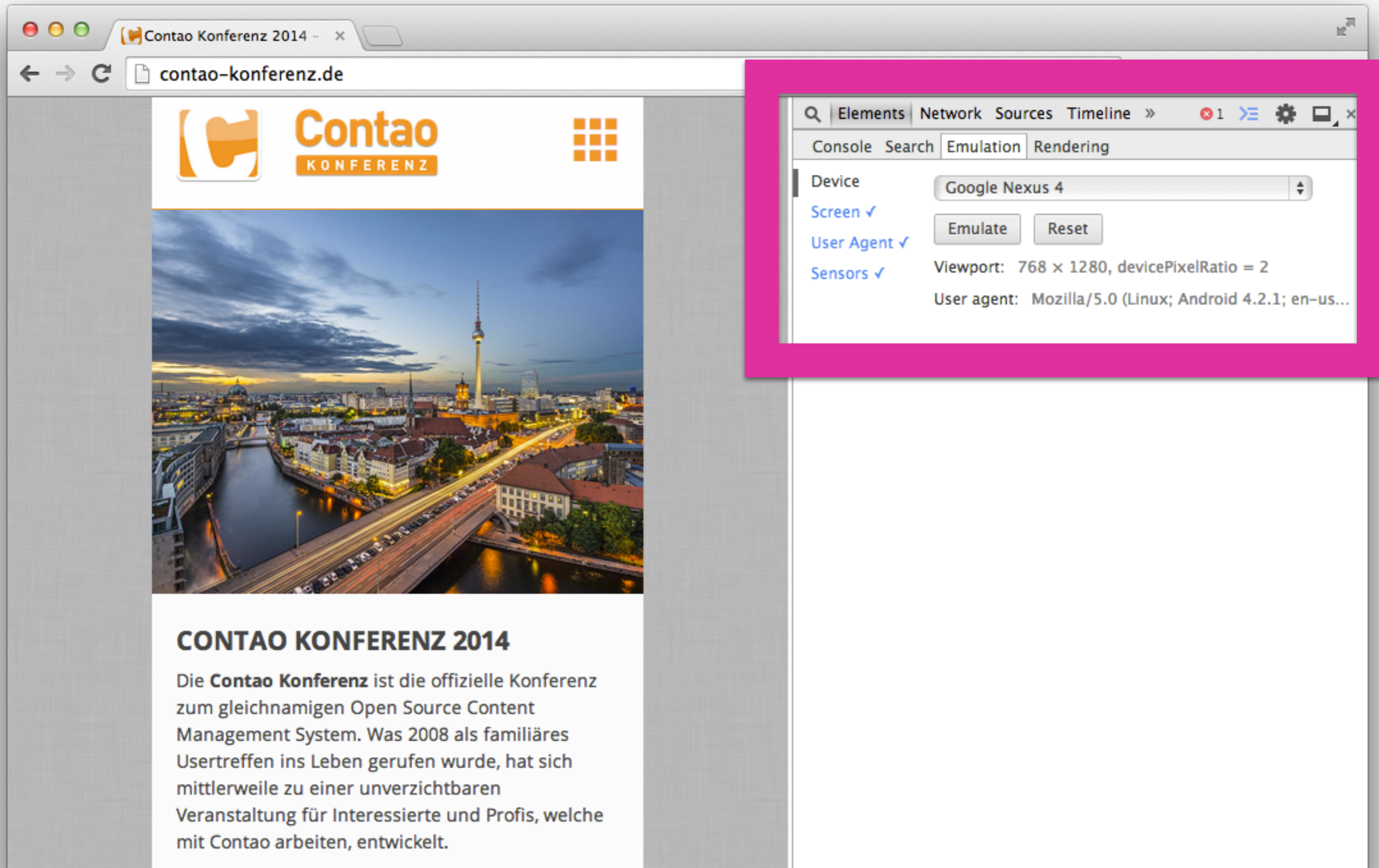
Geerbt von div

html, body, div, 53fa29c6-collection.css:39 span, applet, object, iframe, h1, h2, h3, h4, h5, h6, p, blockquote, pre, a, abbr, acronym, address, big, cite, code, del, dfn, em, font, img, ins, kbd, q, s, samp, small, strike, strong, sub, sup, tt, var, dl, dt, dd, ol, ul

.block > div.inside.clearfix > section.ce_colsetStart.subcolumns.colcount_2.yaml3.col-50x50 > div.c50l.col_1.first > div.subcl > div.ce_text.block > p

Chrome Emulator

Debugging



The image shows a browser window displaying the website 'contao-konferenz.de'. The page features a header with the 'Contao KONFERENZ' logo and a grid icon. Below the header is a large image of a city at dusk, with a river and a bridge. The main content area contains the title 'CONTAO KONFERENZ 2014' and a paragraph of text.

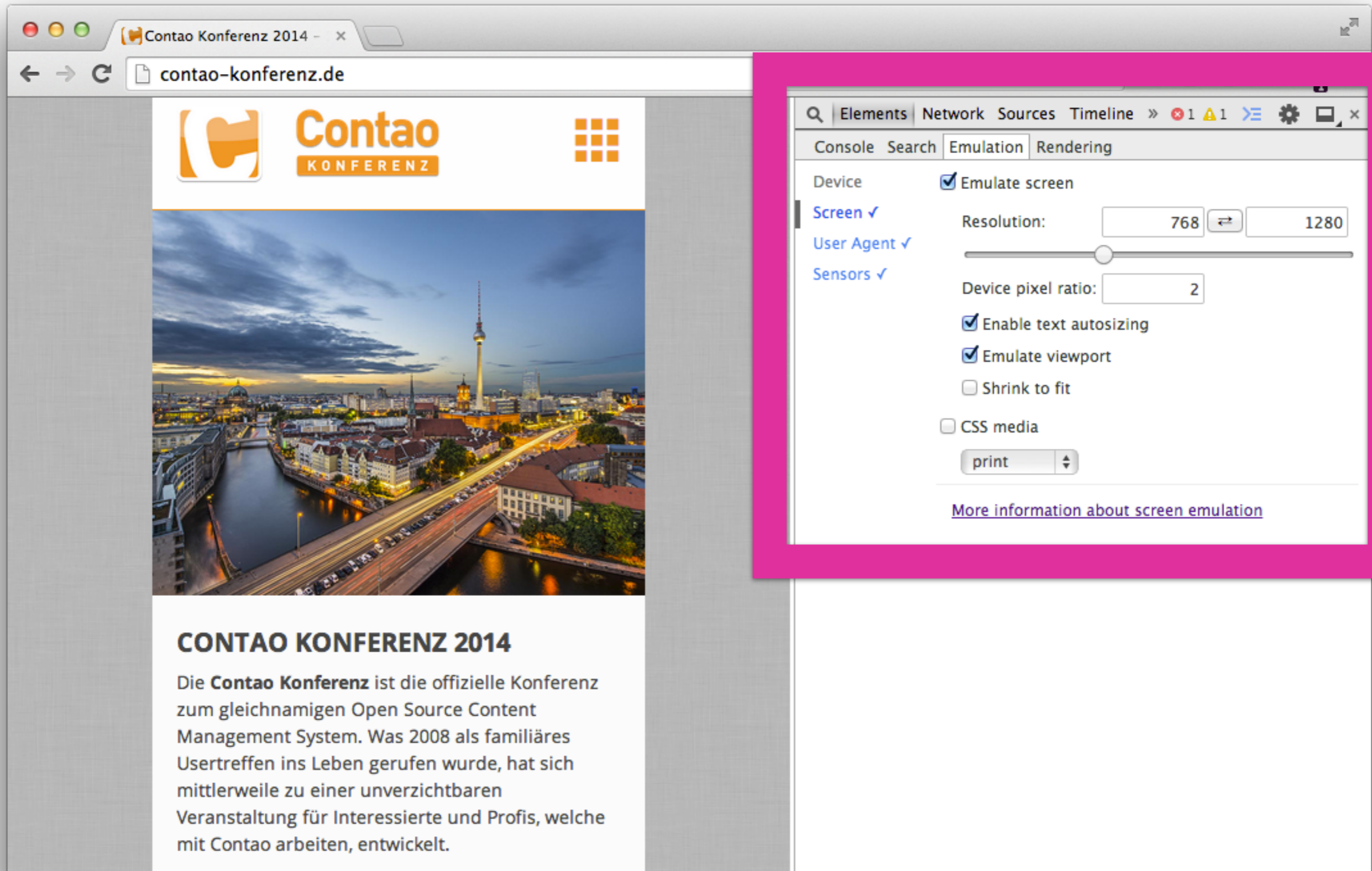
The Chrome DevTools 'Emulation' panel is open, showing the following settings:

- Device: Google Nexus 4
- Screen: ✓
- User Agent: ✓
- Sensors: ✓
- Emulate: [button]
- Reset: [button]
- Viewport: 768 x 1280, devicePixelRatio = 2
- User agent: Mozilla/5.0 (Linux; Android 4.2.1; en-us...

CONTAO KONFERENZ 2014

Die **Contao Konferenz** ist die offizielle Konferenz zum gleichnamigen Open Source Content Management System. Was 2008 als familiäres Usertreffen ins Leben gerufen wurde, hat sich mittlerweile zu einer unverzichtbaren Veranstaltung für Interessierte und Profis, welche mit Contao arbeiten, entwickelt.

Debugging



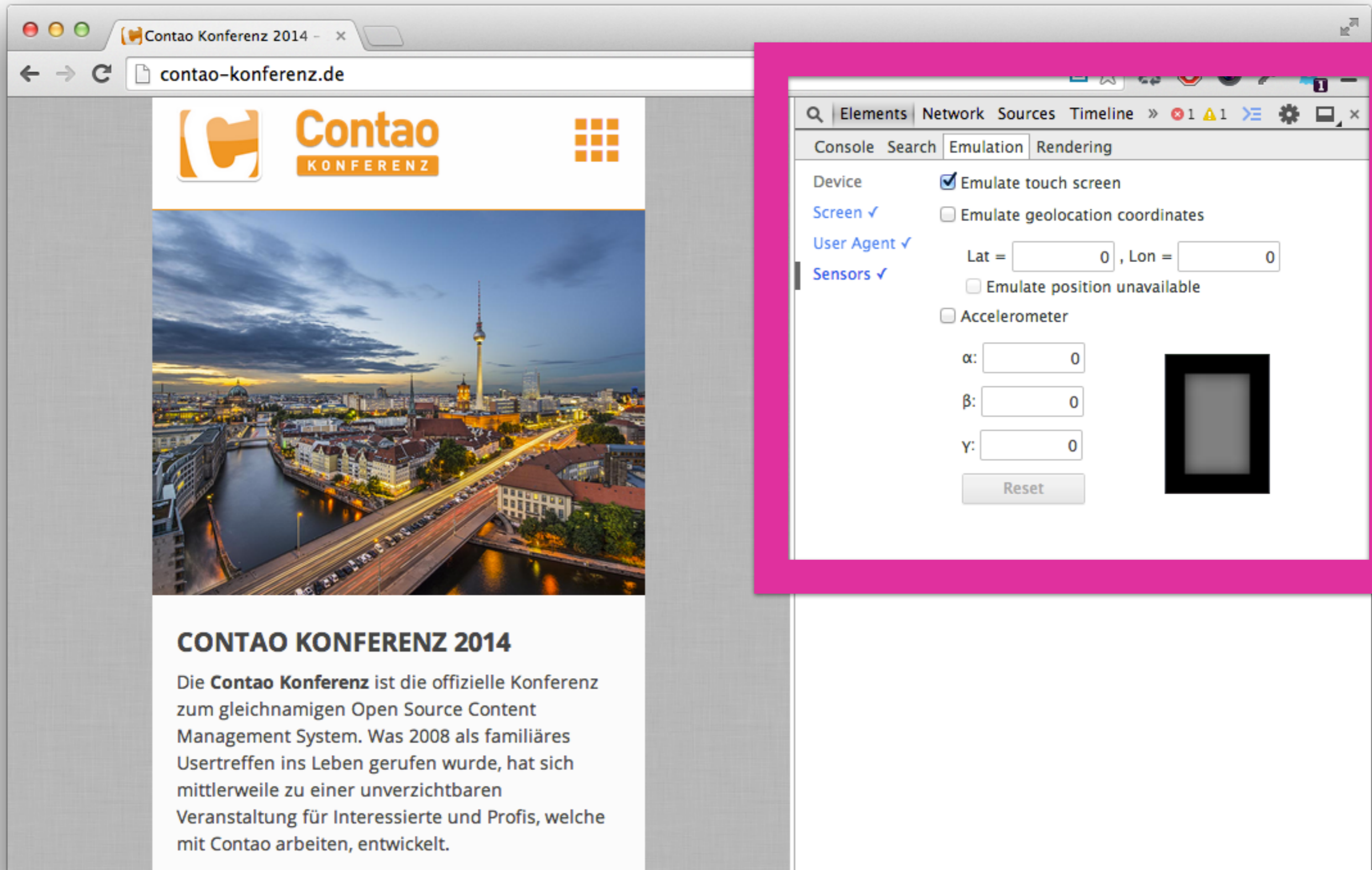
The image shows a web browser window displaying the website `contao-konferenz.de`. The page features the Contao logo and a large photograph of a city at dusk. Below the image, the text reads: **CONTAO KONFERENZ 2014** Die **Contao Konferenz** ist die offizielle Konferenz zum gleichnamigen Open Source Content Management System. Was 2008 als familiäres Usertreffen ins Leben gerufen wurde, hat sich mittlerweile zu einer unverzichtbaren Veranstaltung für Interessierte und Profis, welche mit Contao arbeiten, entwickelt.

Overlaid on the right side of the browser window is the Chrome DevTools Emulation panel. The panel is titled 'Emulation' and includes the following settings:

- Emulate screen
- Resolution: 768 x 1280
- Device pixel ratio: 2
- Enable text autosizing
- Emulate viewport
- Shrink to fit
- CSS media
- print

At the bottom of the Emulation panel, there is a link: [More information about screen emulation](#)

Debugging



The image shows a web browser window displaying the website 'contao-konferenz.de'. The page features the Contao logo and a large photograph of a city at dusk. Below the photo, the text reads: **CONTAO KONFERENZ 2014**
Die **Contao Konferenz** ist die offizielle Konferenz zum gleichnamigen Open Source Content Management System. Was 2008 als familiäres Usertreffen ins Leben gerufen wurde, hat sich mittlerweile zu einer unverzichtbaren Veranstaltung für Interessierte und Profis, welche mit Contao arbeiten, entwickelt.

Overlaid on the right side of the browser window is the Chrome DevTools 'Emulation' panel. This panel is highlighted with a thick pink border. It contains the following settings:

- Device:** A dropdown menu.
- Emulate touch screen:**
- Emulate geolocation coordinates:** . Below this are input fields for 'Lat = 0' and 'Lon = 0'.
- Emulate position unavailable:**
- Accelerometer:** . Below this are input fields for 'α: 0', 'β: 0', and 'γ: 0'.
- Reset:** A button.

To the right of these settings is a visual representation of a mobile device screen.

Echte Geräte

echte Geräte

DMA

❁ Möglich für

❁ Android Chrome

❁ Android Firefox

❁ Opera Mobile

❁ iOS Safari

❁ ...immer mehr Unterstützung

❁ Vorgehen

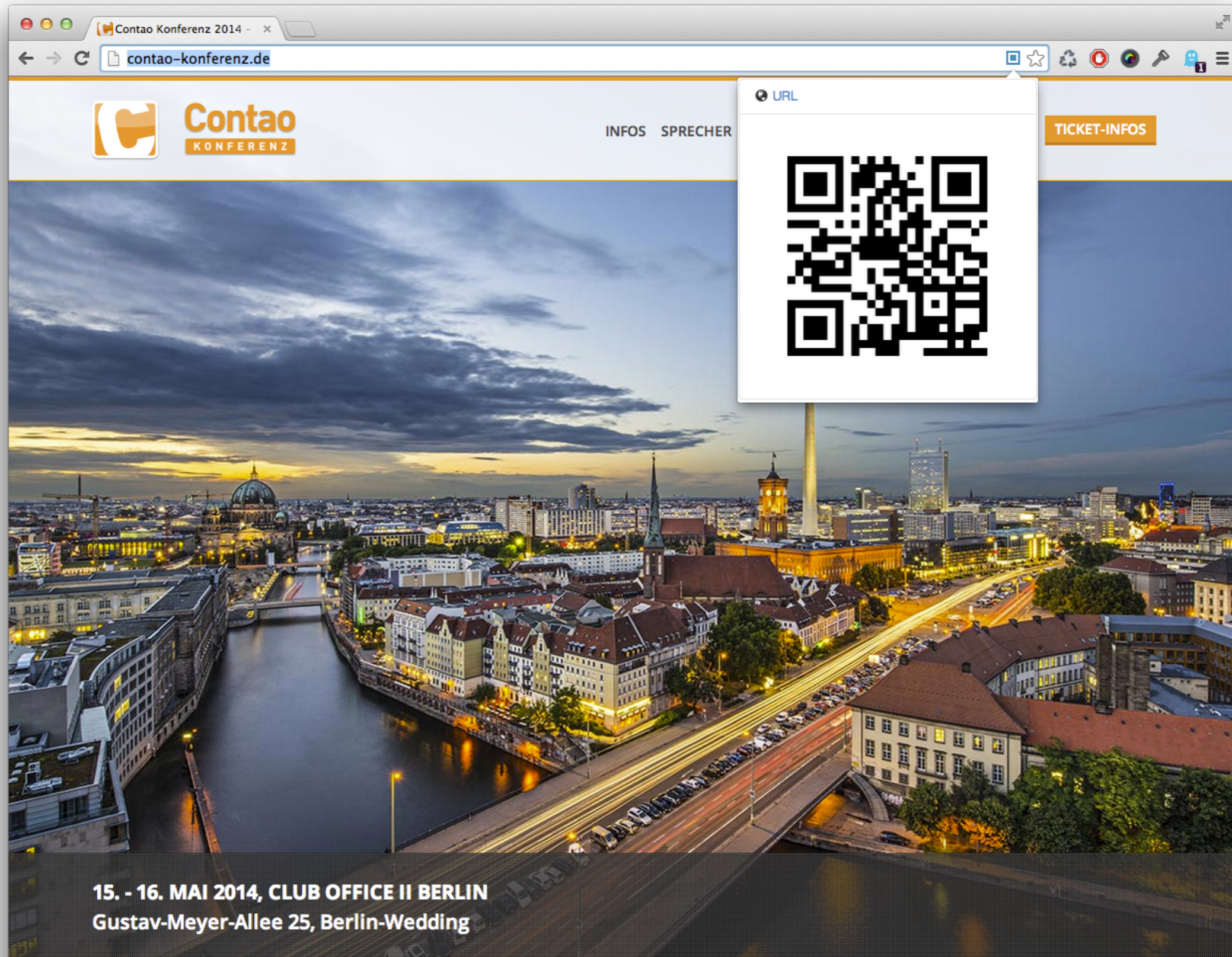
❁ Geräte per USB mit dem Rechner verbinden

❁ analog zu den Emulatoren

Nützliche Tools

QR-Code

DMA



The image shows a browser window displaying the website 'contao-konferenz.de'. The browser's address bar shows the URL. The website header includes the 'Contao KONFERENZ' logo, navigation links for 'INFOS' and 'SPRECHER', and a 'TICKET-INFO' button. The main content area features a large, scenic photograph of Berlin at dusk, showing the city lights and the Spree river. A white box with a QR code is overlaid on the right side of the page. At the bottom of the page, the event details are listed: '15. - 16. MAI 2014, CLUB OFFICE II BERLIN' and 'Gustav-Meyer-Allee 25, Berlin-Wedding'.

Contao Konferenz 2014 - x
contao-konferenz.de

Contao KONFERENZ

INFOS SPRECHER

TICKET-INFO

15. - 16. MAI 2014, CLUB OFFICE II BERLIN
Gustav-Meyer-Allee 25, Berlin-Wedding

Adobe Edge Inspect

DMA

Contao Konferenz 2014 - x Cross-browser testing, mc x

html.adobe.com/edge/inspect/

Adobe & HTML Our Mission Web Platform Open Source Web Tools & Services Events

In Adobe Edge Inspect CC
Preview & inspect web designs on devices.

Adobe Edge Inspect CC

Introducing Adobe Edge Tools & Services

Rf An Co In
Wf Uj Bd

Adobe Edge Inspect

Frank's INBP 192.169.255.1
iPad
Droid X

html.adobe.com/edge/inspect

Plan options

is Creative Cloud? →

Häufige Fallstricke

Häufigkeiten

DMA

1. Navigation 27 %
2. Device Detection 23 %
3. Verwendung eines Grids 13 %
4. Integration eines Sliders 10 %
5. Grafiken 8 %

Navigation

1. Hover-Effekte
2. JavaScript-Variante, die Fehler wirft
3. JavaScript-Variante ohne Fallback
4. Select-Menüs sind schwierig zu handeln

Device Detection

DMA

I. Contao Core:

iPad => Desktop

Android-Tablet => mobile

```
dcaconfig.php: $GLOBALS[',TL_CONFIG']['os']['iPad']['mobile'] = true;
```

2. Andere Methoden:

mobiledetect.net => Contao-Erweiterung

Feature Detection

1. Besser als Device Detection
2. Clientseitig kein Problem (modernizr)
3. Serverseitig existieren ein paar Möglichkeiten:
 1. WURFL (nicht Open Source)
 2. Detector (<http://detector.dmolsen.com/>)
Kombination aus Datenbank und Modernizr
 3. MobileESP: <http://blog.mobileesp.com>

Slider

1. Touch-Events
2. Bilder-Größe/Darstellung responsive

CSS-Eigenschaften

DMA

position: fixed

CSS position:fixed - Recommendation

Method of keeping an element in a fixed location regardless of scroll position

***Usage stats:** Global

Support:	83.14%
Partial support:	6.76%
Total:	89.9%

Show all versions	IE	Firefox	Chrome	Safari	Opera	IOS Safari	Opera Mini	Android Browser	Blackberry Browser	IE Mobile
								2.1		
								2.2		
						3.2		2.3		
						4.0-4.1		3.0		
	8.0		31.0			4.2-4.3		4.0		
	9.0		32.0			5.0-5.1		4.1		
	10.0	28.0	33.0	5.1		6.0-6.1		4.2-4.3	7.0	
Current	11.0	29.0	34.0	7.0	20.0	7.0	5.0-7.0	4.4	10.0	10.0
Near future		30.0	35.0		21.0					
Farther future		31.0	36.0		22.0					
3 versions ahead		32.0	37.0							

Notes Known issues (1)

Only works in And scalable=no">. Par e-width, user-

Edit on GitHub

caniuse.com/#feat-css-fixed

CSS-Eigenschaften

DMA

I. Ressource: caniuse.com/#cats=CSS

1. Retina

2. unterschiedliche Grafiken für verschiedene Geräte

www.nrw-day.de

Performance

DMA

1. Kompression

2. Komprimierung

Performance

DMA

Contao Konferenz 2014 - 15. und 16. Mai 2014, Club Office II Berlin

contao-konferenz.de

Infos Sprecher Sponsoren Location Programm Ticket-Infos

Ressourcen Timelines Debugger Konsole 118 3 MB 4.75 s 0 0 1 Informationen

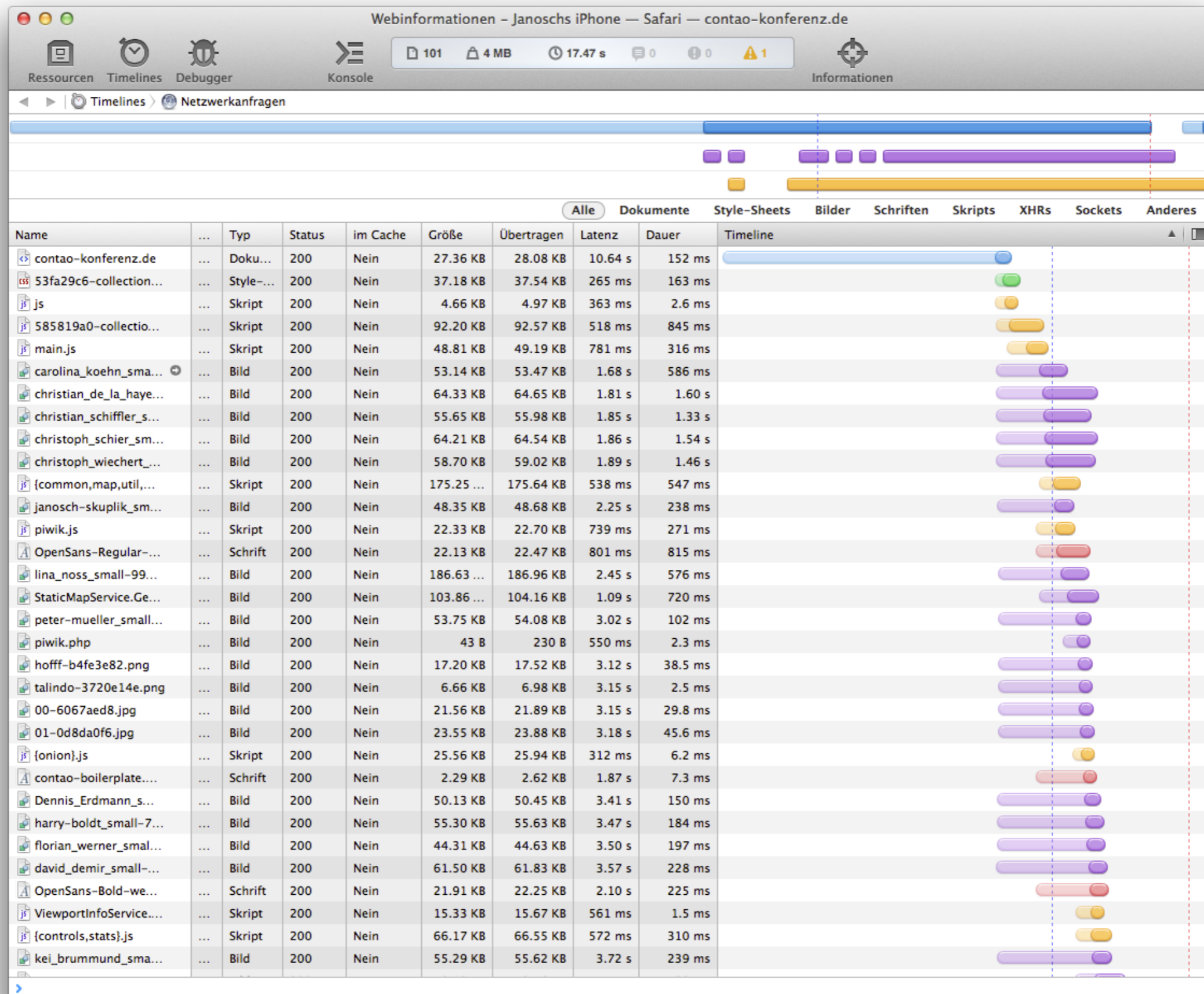
Timelines Netzwerkanfragen

Name	Domain	Typ	Status	im Cache	Größe	Übertragen	Latenz	Dauer	Timeline
contao-konferenz.de	contao-konferenz.de	Dokument	200	Nein	27.35 KB	28.07 KB	1.05 s	148 ms	
53fa29c6-collection.css	contao-konferenz.de	Style-Sheet	200	Nein	37.18 KB	8.39 KB	88.1 ms	15.1 ms	
585819a0-collection.js	contao-konferenz.de	Skript	200	Nein	92.20 KB	32.83 KB	106 ms	148 ms	
js	maps.google.com	Skript	200	Nein	4.66 KB	1.29 KB	117 ms	15.9 ms	
main.js	maps.gstatic.com	Skript	200	Nein	48.81 KB	17.43 KB	103 ms	286 ms	
logo.png	contao-konferenz.de	Bild	200	Nein	8.06 KB	8.38 KB	510 ms	0.6 ms	
berlin.jpg	contao-konferenz.de	Bild	200	Nein	232.76 KB	233.09 KB	509 ms	439 ms	
bgr-infobar.png	contao-konferenz.de	Bild	200	Nein	1.00 KB	1.33 KB	510 ms	0.5 ms	
christoph_schier_small-e...	contao-konferenz.de	Bild	200	Nein	64.21 KB	64.54 KB	506 ms	11.6 ms	
carolina_koehn_small-54...	contao-konferenz.de	Bild	200	Nein	53.14 KB	53.47 KB	511 ms	12.8 ms	
christian_schiffler_small-...	contao-konferenz.de	Bild	200	Nein	55.65 KB	55.98 KB	510 ms	12.0 ms	
christian_de_la_haye_sma...	contao-konferenz.de	Bild	200	Nein	64.33 KB	64.65 KB	512 ms	11.5 ms	
christoph_wiechert_small...	contao-konferenz.de	Bild	200	Nein	58.70 KB	59.02 KB	510 ms	10.5 ms	
piwik.js	association.contao...	Skript	200	Nein	22.33 KB	9.36 KB	473 ms	1.6 ms	

Menü anzeigen

Performance

DMA



Performance

DMA

1. Kompression
2. Komprimierung
3. Wenige HTTP-Requests
4. Conditional Loading
5. Geplanter Einsatz von JavaScript
6. Icons über Icon-Fonts (oder mind. Sprite-Grafik)
7. Kleine Bilder über Data-URL's
8. Performance Budget

Zusammenfassung

DMA

Hier kommt die Zusammenfassung hin...

Definiert die mobilen Geräte projektabhängig...

Definiert die mobilen Geräte projektabhängig...

Testet möglichst auf echten Geräten...

Definiert die mobilen Geräte projektabhängig...

Testet möglichst auf echten Geräten...

Debugging ist für mobile Geräte möglich...

Definiert die mobilen Geräte projektabhängig...

Testet möglichst auf echten Geräten...

Debugging ist für mobile Geräte möglich...

Mobile Geräte werden immer wichtiger!

Buchempfehlung

DMA

Mobile Web Handbook

www.smashingmagazine.com/books/



\$15 ~~\$19~~

eBook

PDF, ePUB, Amazon Kindle.

\$29.90 ~~\$39~~

Print + eBook

Printed, gorgeous hardcover.

DMA



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GLÜCK AUF