

Tools and Techniques for Creating Responsive Web Content

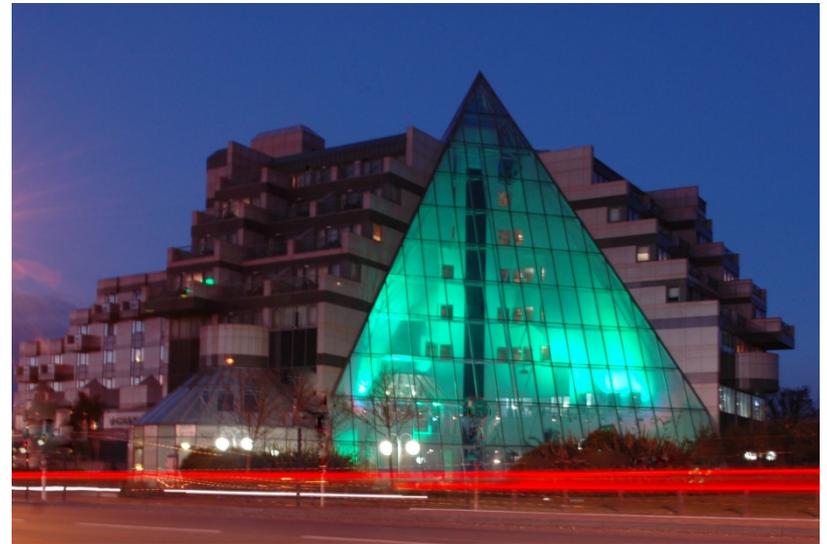


Matthew Ellison
UA Europe?

Matthew Ellison

- Consultant and trainer for User Assistance tools and technologies
- Technical Director of annual UA Europe conference

UA Europe?
ANNUAL CONFERENCE
4-5 June 2015, Southampton, UK



The questions we'll answer in this session

- What is Responsive Web Design (RWD)?
- What are the key concepts that I need to know about?
- What is the technology behind RWD?
- How can I put RWD into in practice?
- How do our tools support RWD?

Responsive Web Design

- Design for an optimal viewing experience over a range of different device sizes and types
- Term coined by web designer Ethan Marcotte



Key characteristics of a responsive site

- As size of **Viewport** changes:
 - Images resize automatically
 - Column widths resize automatically
- At specific **Breakpoints**:
 - Multi-column layouts automatically switch to single column layouts
 - Navigation controls change position and/or presentation
 - Page elements change position or disappear altogether

Responsive example #1: UAConference.eu



Overview of UA Europe Conference

Registration

Speakers

Sessions

Exhibition & product presentations

Agenda

Flights to Kraków and local transport

Things to do in and around Kraków

Sign up for news and information

Exhibition and sponsorship opportunities

Look back at previous years

Training & Consulting Services

UA Europe? ANNUAL CONFERENCE

5-6 June 2014, Kraków, Poland

The Conference for
Software User Assistance
Professionals

Produced by:
uaeurope.com

in association with:
WRITERS UA

Conference Agenda

- [Wednesday 4th June](#)
- [Thursday 5th June](#)
- [Friday 6th June](#)

Wednesday 4th June (Eve of Conference)

- 5.30pm - 8.00pm Conference check-in
- 7.00pm - 8.30pm Informal social gathering in the bar of the Park Inn by Radisson Kraków hotel

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Thursday 5th June

- 8.00am - 8.45am Conference check-in
- 9.00am - 9.15am Welcome to the Conference (Matthew Ellison, UA Europe)
- 9.15am - 9.50am [Who are we? A mirror for UA professionals](#) (Joe Welinske, WritersUA)
- 9.50am - 10.30am [Responsive web design in user assistance](#) (Dr Tony Self, HyperWrite)
- 10.30am - 11.00am Tea/coffee break
Exhibition Time

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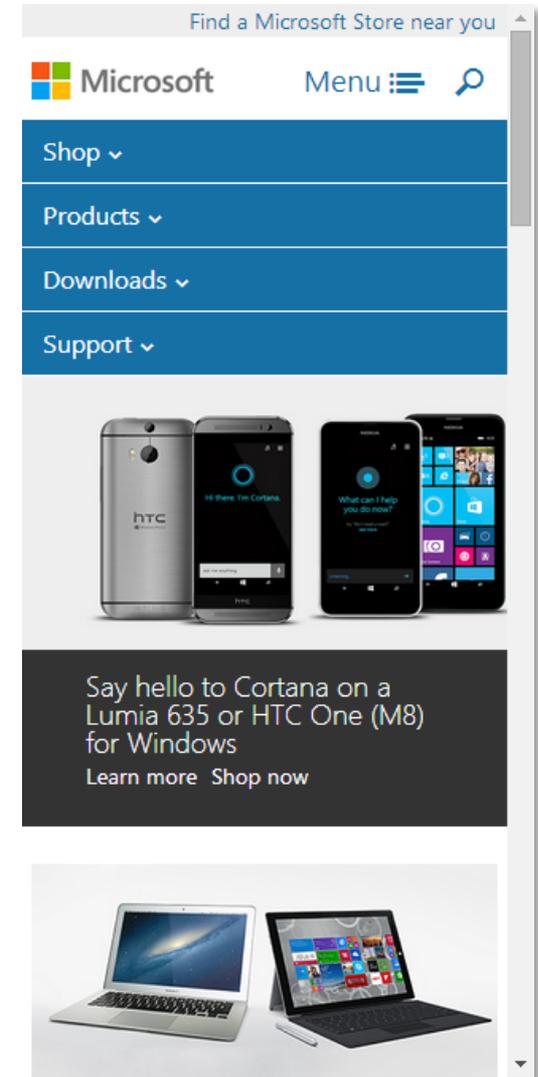
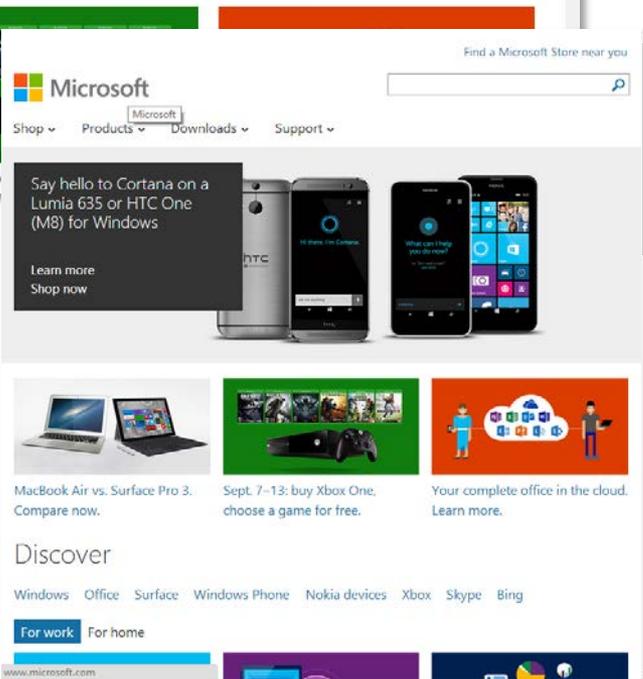
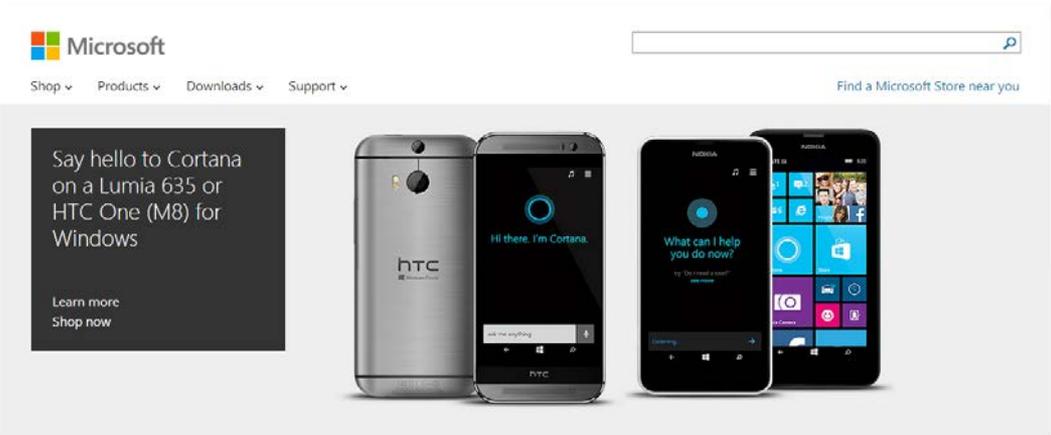
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- of the
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Thursday 5th June



Responsive example #2: Microsoft.com



Responsive example #3: Barracuda docs

+1 408 342 5400 / 888 268 4772 Dashboard Contact English

Barracuda HOME SUPPORT PRODUCTS Search the Barracuda Backup

Barracuda Backup

- Barracuda Backup - Overview
 - What's New in Barracuda Backup
 - + Deployment Options
 - Getting Started
 - Step 1 - How to Install the Barracuda Backup Appliance
 - Step 2 - How to Configure Barracuda Backup
 - **Step 3 - How to Configure Backups**
 - Step 4 - Data Backup Tasks
 - + Web Interface
 - + Security
 - + System Management
 - + Troubleshooting and Error Messages
 - + Agents and Tools
 - Hardware Compliance
 - Limited Warranty and License

You can configure where your data is backed up and in what manner. This article refers to [data sources](#), which are subsets of data on each server that is to be backed up.

Barracuda Backup

Step 3 - How to Configure Backups

★★★★★ Last update: Thursday, 10. Jul 2014

Before configuring the web interface, complete [Step 2 - How to Configure Barracuda Backup](#).

Where Data is Backed Up

You configure how and when your data is to be backed up. All data is first backed up to a local Barracuda Backup Server. If you have more than one local Barracuda Backup Server, you must decide which one backs up which systems.

Data on the local Barracuda Backup Server can then be backed up, or [replicated](#), to another Barracuda Backup Server in a remote location, to the [Barracuda Cloud Storage](#), or to a combination of the two. See [Site-to-Site Deployment](#) or [Site-to-Cloud Deployment](#) for deployment options. The location of the replicated data is specified for each data source. You can also choose to not replicate the backed-up data at all.

+1 408 342 5400 / 888 268 4772 Dashboard Contact English

Barracuda

Barracuda Backup

Articles Tree

Step 3 - How to Configure Backups

★★★★★ Last update: Thursday, 10. Jul 2014

Before configuring the web interface, complete [Step 2 - How to Configure Barracuda Backup](#).

You can configure where your data is backed up and in what manner. This article refers to [data sources](#), which are subsets of data on each server that is to be backed up.

Related Articles

- [Backing Up Data Sources](#)
- [Replicating Data](#)
- [Deployment Options](#)

In this article:

- [Where Data is Backed Up](#)
- [Supported Data Types](#)

Where Data is Backed Up

You configure how and when your data is to be backed up. All data is first backed up to a local Barracuda Backup Server. If you have more than one local Barracuda Backup Server, you must decide

Key issues

- Graceful degradation?

or

- Progressive enhancement?

which leads us to another important term...

Mobile First

- Term coined by Luke Wroblewski
- Design web content for viewing on mobile devices, and adapt for desktop screens
- Why?
 - Forces you to focus
 - Mobile viewing set to outstrip desktop
 - Extends your capabilities



An alternative view

- "A responsive design should linearise the layout and optionally buttonise the navigation."

[Nicholas Johnson]

<http://www.sitepoint.com/disable-responsive-design-option/>

What is the technology behind RWD?

- Fluid/Flexible images (and videos)
 - `img {max-width: 100%;}`
- Fluid/Flexible grids
 - % for margins and widths of `div`
 - `{float: none}` for small screens
- CSS 3:
 - Media Queries

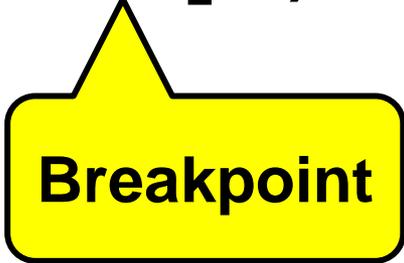
Media Queries

- Enable you to change format and layout based on the width of the viewport
- Introduced in CSS 3
- “Conditional styles”

Media Query: single style sheet

- Within single CSS file:

```
@media screen and (max-width: 810px)
{
    h1 {color:green}
    ...
}
```



Breakpoint

- This applies specific styles from within a single style sheet, based on the width of the device

Media Query: multiple style sheets

- Within Head section of HTML page:

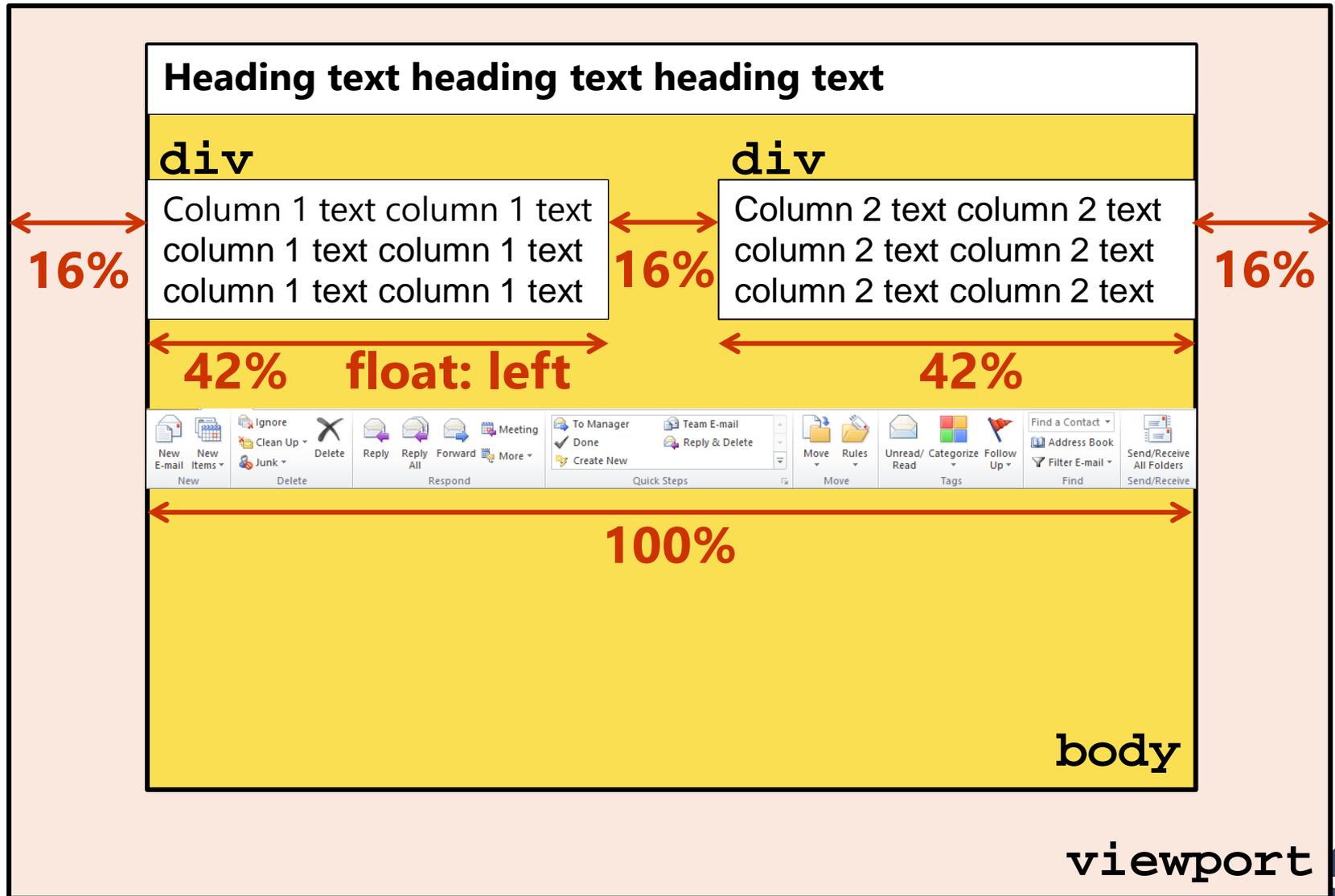
```
<link href="css/tablet.css"  
      rel="stylesheet"  
      type="text/css"  
      media="screen and  
            (min-width: 401px) and  
            (max-width: 809px)" >
```



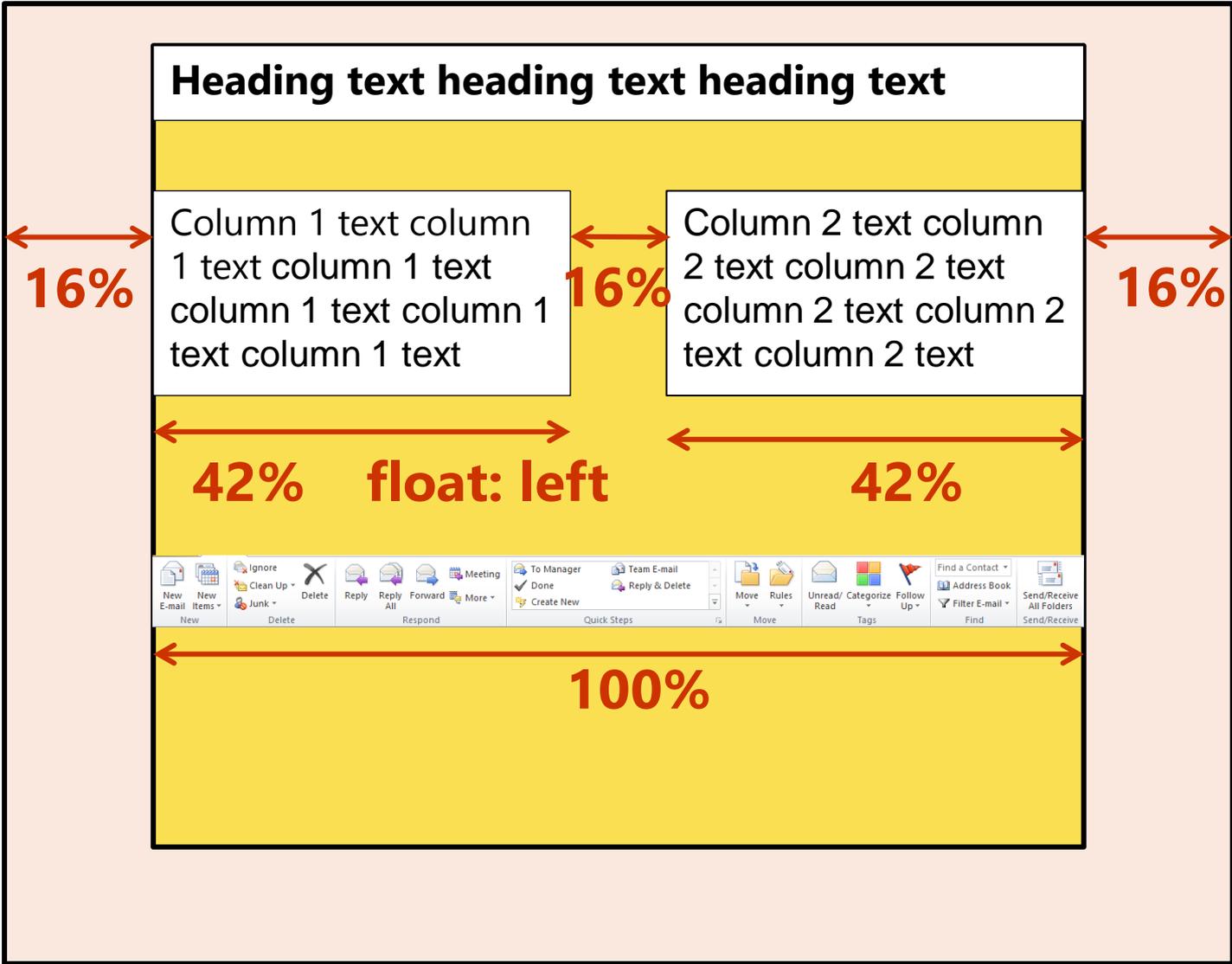
Breakpoints

- This applies an appropriate style sheet based on the width of the device

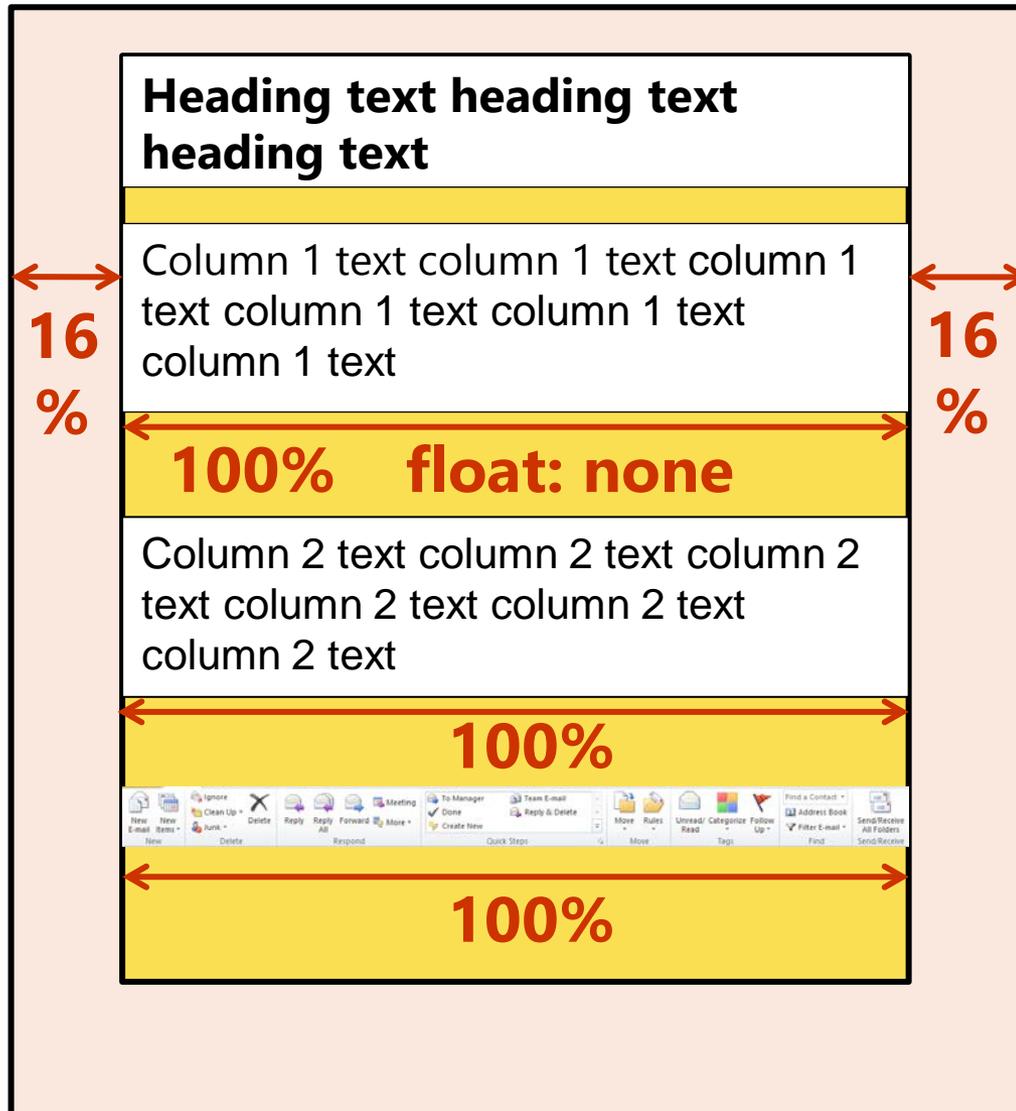
Simple example



Simple example: viewport less wide



Simple example: past breakpoint



Case study: UA Europe Conference website

pack horse x Heathrow x f (1) Facebook x Barracuda x Responsiv x f (4) Mark Jc x UA Europe x Please, do x UA Europe x

file:///D:/Documents/Consulting/Company/Web%20Site/Web_Site_Files/2011-07-08%20Redesign%20with%20UA%20Europe%20branding/cc



Overview of UA Europe Conference

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Questions?
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Technical Communicators: Registration for UA Europe 2014 is Now Open

UA Europe 2014 takes place in the wonderful city of **Kraków, Poland**, on **June 5th - 6th, 2014**.

UA Europe is an annual conference for technical communicators that focuses on **software user assistance** and **online Help**. It provides a unique update on the latest industry trends, technical developments, and best practice in software user assistance.



[Register Now](#)

Special Track on Mobile User Assistance

Surveys show that end-users are increasingly using mobile devices such as smartphones and tablets to access user assistance — and the traditional design models for user assistance do not work well on these platforms. As a result UA Europe 2014 features an optional track that focuses on one of the hottest topics facing today's technical communicators: **Mobile User Assistance**.

The track includes the following sessions:

- [Designing user assistance for mobile business apps](#) (Willam van Weelden)
- [Responsive web design in user assistance](#) (Dr Tony Self)
- [Trends in mobile user assistance](#) (Joe Welinske)

Assumptions on which redesign was based

- Business users researching the conference are likely to be using a desktop or laptop computer
- Users will register for the conference using a desktop or laptop computer
- Users may want to check key facts using a mobile device
- Users travelling to and attending the conference are likely to be using mobile devices

Technique #1: Showing/hiding specific elements

- HTML:

```
<div class="desktoponly">
```

```
<p>This content appears only on large screens</p>
```

```
</div>
```

```
<div class="mobileonly">
```

```
<p>This content appears only on small screens</p>
```

```
</div>
```

Technique #1: Showing/hiding specific elements

- CSS:

```
.desktoponly {  
    display:block;  
}  
.mobileonly {  
    display:none;  
}  
  
@media screen and (max-width: 810px) {  
    .desktoponly {  
        display:none;  
    }  
    .mobileonly {  
        display:block;  
    }  
}
```

Technique #2: Left-hand navigation pane for large screens



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Conference Sessions

On day 1 of the conference, one of the two optional session tracks will focus on **Mobile User Assistance**.

All conference sessions and workshops are presented in English.

Sessions in Mobile User Assistance track

- [Responsive web design in user assistance](#) (Dr Tony Self)
- [Tool support for creating mobile user assistance](#) (Matthew Ellison)
- [Trends in mobile user assistance](#) (Joe Welinske)
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General sessions

- [Practical HTML5/CSS3 for real writers](#) (Dave Gash)
- [A technical writer's role in redesigning the application UI](#) (Agnieszka Tkaczyk)
- [Agile documentation in practice](#) (Ulrike Parson)
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Desktop

Mobile

UA Europe?

Technique #2: Left-hand navigation pane for large screens

- HTML:

```
<div id="content">  
...  
</div>
```

```
<div id="nav">  
<p class="nav"><a href="index.html">Overview</a></p>  
<p class="nav"><a href="registration.html">Registration</a></p>  
...  
</div>
```

Technique #2: Left-hand navigation pane for large screens

- CSS (large screen):

```
#content
{
    float:right;
    width: 615px;
    border-left: 3px solid #314975;
    padding-left: 10px;
}
```

```
#nav
{
    position: relative;
    width: 158px;
}
```

Technique #2: Left-hand navigation pane for large screens

- CSS (small screen):

```
@media screen and (max-width: 810px) {  
  
    #content {  
        float:none;  
        width: 100%;  
        border-left: none;  
        padding-left:0;  
        margin:0;  
    }  
  
    div#nav {  
        display:none  
    }  
}
```

Technique #3: Top navigation menu for small screens



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Desktop

Mobile

UA Europe?

Technique #3: Top navigation menu for small screens

- HTML:

```
<body>
<div id="topbar">
<a href="index.html">Home</a>
<a href="agenda.html">Agenda</a>
<a href="speakers.html">Speakers</a>
<a href="sessions.html">Sessions</a>
<a href="flightinfo.html">Flights</a>
</div>
```

Technique #3: Top navigation menu for small screens

- CSS (large screen):

```
div#topbar {  
    display:none;  
}
```

Technique #3: Top navigation menu for small screens

- CSS (small screen):

```
@media screen and (max-width: 810px) {
```

```
    div#topbar {  
        display:block;  
        top:0;  
        width:100%;  
        padding-top:1em;  
        padding-bottom:1em;  
        position:fixed;  
        background-color:#ffffff;  
        opacity:1.0;  
        z-index:1;  
        border-bottom:1px solid #ccc;  
        font-size:100%;  
    }
```

```
}
```

Technique #4: Resizing and centering images for small screen

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DR. EXPLAIN

Comments from UA Europe 2013 in Manchester:

"I simply love this conference!!!"

"Stimulating, motivating, enlightening - my brain hurts, but it was very much worth it!"

"Overall, I loved the

Chris Atherton
Jang Graat
Pawel Kowaluk
Karen Mardahl
Agnieszka Tkaczyk
William van Weelden

Venue for UA Europe 2014



UA Europe 2014 is at the 4-star **Park Inn by Radisson Kraków**. The hotel has extensive state-of-the-art conference facilities, and features spacious and colourful bedrooms with free Wi-Fi.

It is located within a 15-minute walk of both the [Wawel Royal Castle](#) and the Jewish district of [Kazimierz](#) that has countless Bohemian cafés, bars and restaurants. Frequent trams run from right outside the hotel to the Old Town and to the railway station.

About the UA Europe Conference

This conference is for **technical communicators, user assistance specialists, information architects, technical authors, software developers, documentation managers** and anyone else involved in the development of user assistance for software

Desktop



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About the UA Europe Conference

Mobile

Technique #4: Resizing and centering images for small screen

- HTML:

```
<div class="centerimage">  
  
</div>
```

```
<p>The hotel has extensive state-of-the-art conference facilities, and features  
spacious and colourful bedrooms with free Wi-Fi.</p>
```

```
<div class="centerimage">  
<img style="float:left
```

Technique #4: Resizing and centering images for small screen

- CSS (small screen):

```
@media screen and (max-width: 810px) {  
  
    div.centerimage {  
        text-align:center;  
    }  
  
    div.centerimage img {  
        width:75%;  
        height:auto;  
        float:none !important;  
    }  
}
```

Technique #5: Setting the ideal viewport width

- HTML

```
<meta name="viewport"  
      content="width=device-width,initial-scale=1" />
```

Technique #5: Setting the ideal viewport width

- Without meta tag:

www.uaconference.eu/agenda 54

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Conference Agenda

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- Thursday 5th June
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5.30pm - 8.00pm Conference check-in

7.00pm - 8.30pm Informal social gathering in the bar of the Park Inn by Radisson Krakow hotel

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Thursday 5th June

8.00am - 8.45am Conference check-in

9.00am - 9.15am Welcome to the Conference (Matthew Ellison, UA Europe)

9.15am - 9.50am **Who are we? A mirror for UA professionals** (Joe Weinske, WinerStIA)

9.50am - 10.30am **Responsive web design in user assistance** (Dr Tony Sell, HyperWrite)

10.30am - 11.00am Tea/coffee break
Exhibition Time

11.00am - 12.00pm **Practical HTML5/CSS3 for real websites** (Dave Gash, HyperTrain) **Maximising the effect of progressive disclosure** (Jang F.M. Groot, JANG Communication)

12.00pm - 1.30pm Lunch for all Conference delegates
Exhibition Time

Mobile UA Track **General Sessions**

1.30pm - 2.10pm **Tool support for creating mobile user assistance** (Matthew Ellison, UA Europe) **Designing transactions successfully** (Dr Chris Atherton, Equal Experts)

2.15pm - 2.55pm **Trends in mobile user assistance** (Joe Weinske, WinerStIA) **A case study of enhanced user assistance in the GIN** (Rajesh Khurana and Rajeev Kumar Tiwari, Ericsson India Global Services)

2.55pm - 3.20pm Refreshments break
Exhibition Time

3.20pm - 4.00pm **Designing user assistance for mobile business apps** (William van Weelden, WvanWeelden Consultancy) **Automating and managing multiple instances in a multi-tenant environment** (Thomas Ero-Rasmussen, GN Omnitics)

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GOLD SPONSOR: **madcap software**

SILVER SPONSORS: **3di**

BRONZE SPONSORS: **antidot**, **DR EXPLAIN**

Comments from previous UA Europe conferences:
"Excellent conference - as useful in the sessions as in the chance meetings with other like-minded delegates - thank you."



Technique #5: Setting the ideal viewport width

- With meta tag:



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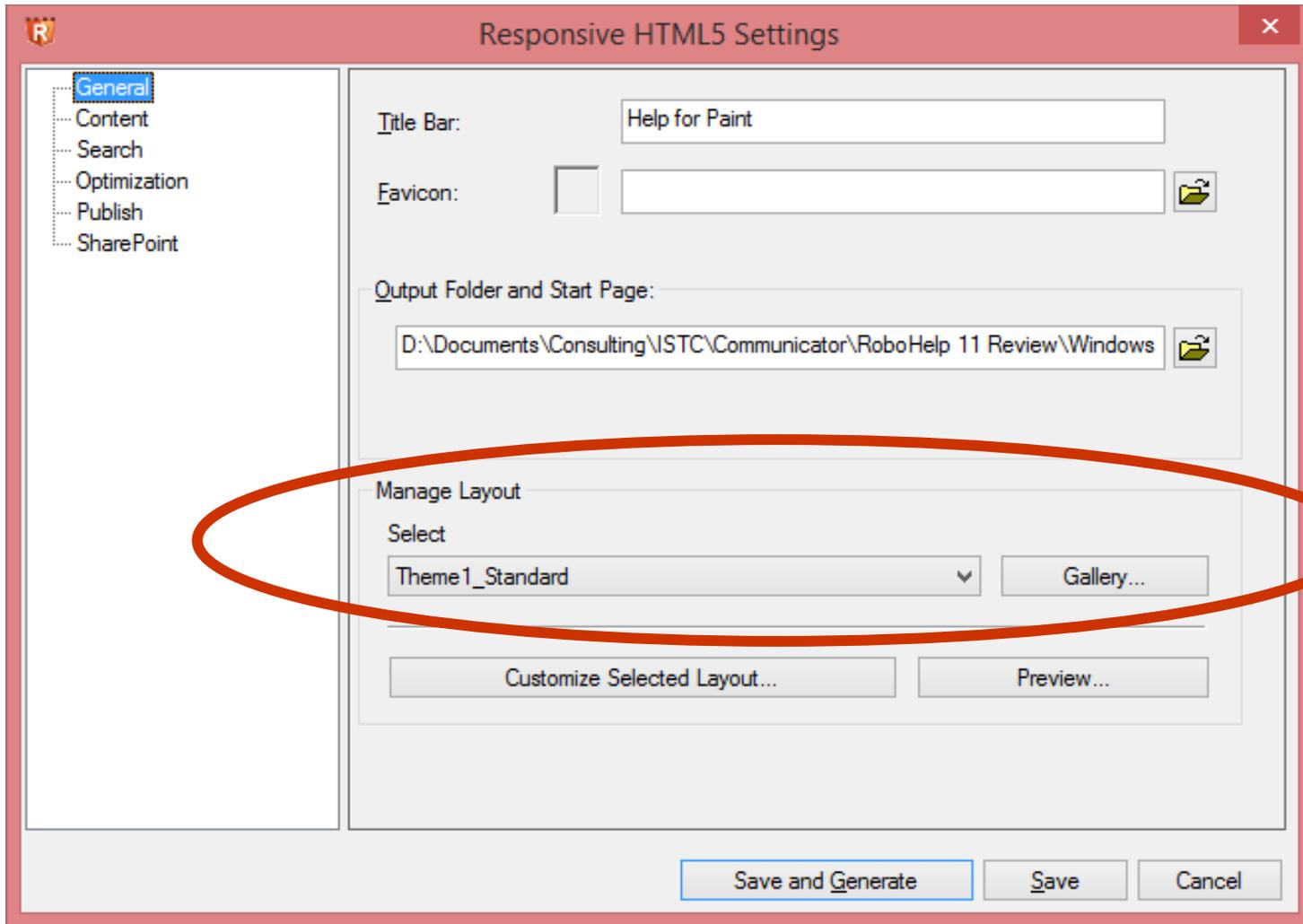
5.30pm - Conference check-in
8.00pm

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Park Inn by Radisson Kraków hotel



RoboHelp...

Setting up the Responsive HTML5 output



Editing a Responsive Layout

Layout Customization: Theme1_Standard

Layout Components

- Header
- Function bar
- Global
- Sidebar
- Search
- TOC Desktop
- TOC Mobile/Tablet
- Index Desktop
- Index Mobile/Tablet
- Glossary Desktop
- Glossary Mobile/Tablet
- Title Mobile
- Navigation Mobile/Tablet

Properties

Reset component Reset property

Background	0079AC
Logo	logo.png
Font	"Arial Black", Arial, sans-serif
Font weight	900
Color	FFFFFF
Hover color	FFFFFF

Logo

The logo used in the layout. Use an image OF 80x80 pixels for best results.

Click on the button to view/edit properties of the component

Logo Font Color Hover color Background

Font weight

Layout Images Source

Font weight

A-Z

-Search-

Book closed

>Lorem ipsum dolor sit amet.

Consectetur adipiscing elit. Vivamus tempor mauris vel ante venenatis volutpat. Morbi eleifend euismod nulla sit amet rutrum. Nulla semper ante eget enim d'pobius sit amet dapibus dui pulvinar. Sed non justo odio. Etiam porttitor accusa
y it Pellentesque inceptos ut m... uis mauris ante, tempor lar... im. Donec metus t... ions f

Save and Preview Save Close

Great
embedded
UA

Clickable
buttons

Media Queries

Screen Profile Properties (Phone) ✕

Name:

Type: ▼
[Check for new screen profiles](#)

Screen Resolution

	Minimum:	Maximum:
Width:	<input type="text"/> px	<input type="text" value="900"/> px
Height:	<input type="text"/> px	<input type="text" value="1200"/> px

Browser(s):

Media Queries

The screenshot shows the 'Styles' panel for a 'Hyperlink' element. The 'Available in' dropdown is set to 'Topics.css'. The 'Media' dropdown is set to 'Phone', which is circled in red. The 'Media Query' is 'only screen and (max-width: 900px.)'. The 'Character Preview' shows the word 'Hyperlink' in blue. The 'Formatting' section shows 'Pseudo class' set to '(none)'. The 'Font' section shows 'Font' set to 'Arial', which is circled in red, and 'Size' set to '200%'. Other font settings include 'Strikethrough' and 'Superscript' checkboxes, and a 'Set Twisties...' button.

Flare...

Enabling responsive output in HTML5 skin

The screenshot shows the 'LightHTML5*' HTML5 Skin Editor interface. The left sidebar contains a menu with the following items: General, Size, Setup, Toolbar, Community, Styles, and UI Text. The main content area is titled 'HTML5 Skin Editor | Preview' and contains several settings sections:

- General:** Includes a 'Resizable' checkbox.
- Topic Settings:** Includes two checkboxes: 'Show navigation link at top of topic' and 'Show navigation link at bottom of topic'.
- Responsive Output Settings:** This section is highlighted with a red oval and contains:
 - Enable responsive output
 - Tablet Max-Width: 1279 px
 - Mobile Max-Width: 767 px

A yellow callout bubble points to the 'Tablet Max-Width' and 'Mobile Max-Width' settings, containing the text: **Breakpoints between different Media types**

Editing HTML5 layout (Styles in skin)

The screenshot shows the LightHTML5* HTML5 Skin Editor interface. The top navigation bar includes 'HTML5 Skin Editor', 'Preview', 'Web Medium', 'Tablet Medium', 'Mobile Medium' (selected), 'Highlight', 'Add Class', and 'Delete Class'. The left sidebar contains a tree view of the skin structure, with 'Styles' selected. The main preview area displays a mobile layout for 'Ipswitch WS_FTP' with a yellow callout box containing the text: **Styles cascade: Web > Tablet > Mobile**. The preview content includes a header with a logo, a star rating, and an 'Introduction' section with a list of bullet points and several paragraphs of text.

General

Size

Setup

Toolbar

Community

Styles

UI Text

Global

- ▶ Main Page

Header

- ▶ Header

Logo

- ▶ Background
 - Gradient: transparent transparent
 - Color: transparent
 - Image: url('ws_ftp_logo.gif')
- ▶ Layout
- ▶ Search Bar
- ▶ Search Input

Navigation

- ▶ Home Button
- ▶ Navigation Slide Out Button
- ▶ Navigation Panel
- ▶ Navigation Panel Item
- ▶ Navigation Panel Item (selected)
- ▶ Navigation Tab
- ▶ Navigation Tab (active)
- ▶ Navigation Tab (inactive)

Introduction

Introduce your company, why it has created employees.

After describing the general nature of the manual:

- Summarize the history of its development, updating, and maintenance
- Identify the document owner, if necessary
- List relevant documents. Include cross-references to an appendix, if necessary

Sample introduction:

The purpose of this manual is to outline the policies and procedures for the smooth operation of GenericSoft.

This manual takes precedence if there is a conflict with current practice and procedures.

All employees of GenericSoft are responsible for reading and understanding the policies. These policies have been prepared to define procedures that affect the relationship between the employee and the organization.

For matters covered by these policies, no person, other than [role], is authorized to deviate from these policies and any deviation must be approved in writing.

GenericSoft may change these policies and procedures, in whole or in part, at any time.

GenericSoft retains the right to change, modify, suspend, interpret or cancel in whole or in part any policies of the organization, without advance notice without having to give cause or justification.

Recognition of these rights and prerogatives of the organization is a term and condition of employment and of continue

Media Queries

- No built-in support in Flare's style sheet editor
- You can manually enter required code, for example:

```
@media only screen and  
max-width: 767px)  
{  
    a { font-size: 200%; }  
}
```

DITA...

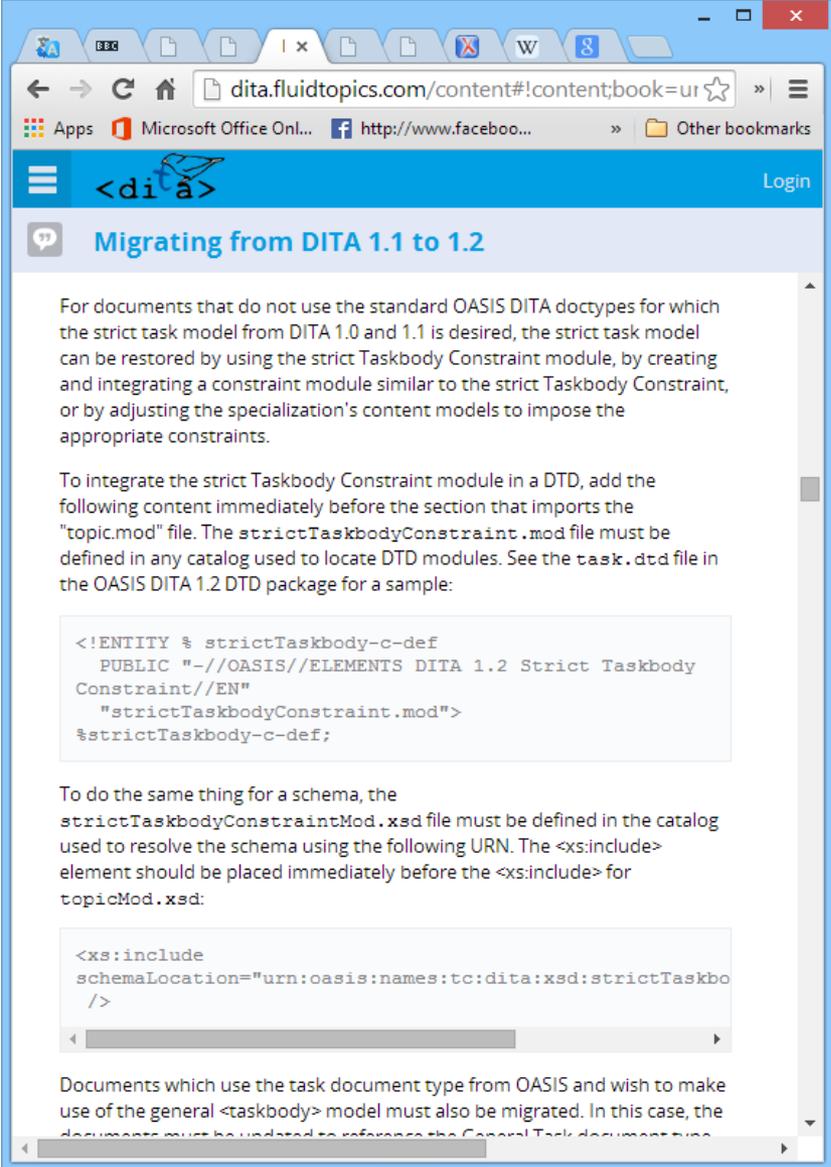
Third party DITA authoring/publishing tools

- Oxygen XML Editor's Mobile WebHelp
- Antidot's Fluid Topics

Oxygen XML Editor's Mobile WebHelp

Growing Flowers		
 Content	 Search	 Index
Introduction		
Care and Preparation		
Flowers by Season		
Glossary		
Copyright		

ANTIDOT's Fluid Topics



Browser address bar: `dita.fluidtopics.com/content#!content;book=ur`

Migrating from DITA 1.1 to 1.2

For documents that do not use the standard OASIS DITA doctypes for which the strict task model from DITA 1.0 and 1.1 is desired, the strict task model can be restored by using the strict Taskbody Constraint module, by creating and integrating a constraint module similar to the strict Taskbody Constraint, or by adjusting the specialization's content models to impose the appropriate constraints.

To integrate the strict Taskbody Constraint module in a DTD, add the following content immediately before the section that imports the "topic.mod" file. The `strictTaskbodyConstraint.mod` file must be defined in any catalog used to locate DTD modules. See the `task.dtd` file in the OASIS DITA 1.2 DTD package for a sample:

```
<!ENTITY % strictTaskbody-c-def
PUBLIC "-//OASIS//ELEMENTS DITA 1.2 Strict Taskbody
Constraint//EN"
"strictTaskbodyConstraint.mod">
%strictTaskbody-c-def;
```

To do the same thing for a schema, the `strictTaskbodyConstraintMod.xsd` file must be defined in the catalog used to resolve the schema using the following URN. The `<xs:include>` element should be placed immediately before the `<xs:include>` for `topicMod.xsd`:

```
<xs:include
schemaLocation="urn:oasis:names:tc:dita:xsd:strictTaskbo
/>
```

Documents which use the task document type from OASIS and wish to make use of the general `<taskbody>` model must also be migrated. In this case, the documents must be updated to reference the General Task document type

Publishing from DITA using a HAT

- DITA -> Flare -> Responsive HTML5
- DITA -> ePublisher -> WebWorks Reverb

References and resources

- <http://alistapart.com/article/responsive-web-design>
- <http://unstoppablerobotninja.com/entry/fluid-images>
- <http://mediaqueri.es/>
- <https://econsultancy.com/blog/64646-15-delicious-examples-of-card-based-web-design>
- http://assets.madcapsoftware.com/webinar/Presentation_ContentAuthoringforResponsiveDesign.pdf
- <http://mobile.smashingmagazine.com/2010/07/19/how-to-use-css3-media-queries-to-create-a-mobile-version-of-your-website/>

References and resources

- http://www.quirksmode.org/blog/archives/2010/04/a_pixel_is_not.html
- <http://gamon.org/blog/2013/04/26/css-pixel-ratios-or-why-all-mobile-sites-are-320-pixels/>
- <http://www.responsinator.com/>
- <http://dita4publishers.sourceforge.net/>
- <http://mobile dita.com/>

Gift for TCUK 2014 attendees

- Free download of all slides from UA Europe 2014 in Kraków

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...and enter your contact details to receive username and password

Questions?

matthew@uaeurope.com



Matthew Ellison

UA Europe?
