



# Responsive Design

business by integration

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# Agenda

- Einleitung
- Beispiel [oracle.cloud.com](https://oraclecloud.com)
- Technik
- Responsive Design in APEX
- Fazit

# Einleitung

- Responsive Design
  - Anpassungsfähiges Webseiten Layout
  - Neueste Webstandards HTML5 und CSS3

Ein Ansatz dem Endbenutzer eine optimal entwickelte Webanwendung zu entwickeln, welche die beste Unterstützung hinsichtlich der Darstellung, Navigation und Bedienung zur Verfügung stellt.

# Einleitung - <http://html5test.com/>

THE HTML5 TEST - HOW WELL DOES YOUR BROWSER SUPPORT HTML5?

your browser | other browsers | compare | news | about the test

your browser scores

# 393

**AND 10 BONUS POINTS**


out of a total of 500 points

You are using Firefox 19.0 on Windows 7

9,587 | 14k | 5k

Tweet | Like | +1

The HTML5 test score is an indication of how well your browser supports the upcoming HTML5 standard and related specifications. Even though the specification isn't finalized yet, all major browser manufacturers are making sure their browser is ready for the future. Find out which parts of HTML5 are already supported by your browser today and compare the results with other browsers.



# Einleitung – HTML Input Types

- <http://apex.mt-ag.com/pls/apex/f?p=8000000017>

HTML 5 & APEX @ MT AG - Credits go to Roel Hartman

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Input Types	Input Types using Plugins
Email <input type="text" value="info@mt-ag.com"/>	Email Text <input type="text" value="info@mt-ag.com"/>
URL <input type="text" value="http://portal.mt-ag.com"/>	URL Text <input type="text" value="http://apex.oracle.com"/>
Number <input type="text" value="0"/>	Number <input type="text" value="0"/>
Range <input type="text" value="0"/>	Range <input type="text"/>
Search <input type="text" value="Search starts here..."/>	Search Text <input type="text" value="Search starts here..."/>
Date <input type="text" value="2012-07-25"/>	Number as Text <input type="text" value="0"/>
Color <input type="text" value="Color me"/>	Plain Text <input type="text" value="Text"/>
<b>More Input Types</b>	Telephone Text <input type="text" value="+49 2102 309 61 0"/>
Sort of hide/show item: HTML 5 Now you DO see me!	<input type="button" value="Submit"/>
Meters: Your score is: <input type="range" value="50"/>	
Download is: <input type="range" value="20"/>	
Goal is: <input type="range" value="80"/>	

# Einleitung

- Code & Seite nur einmal
- Gleiche UI für Desktops / Smartphones & Tablets
- Gleicher Entwickler

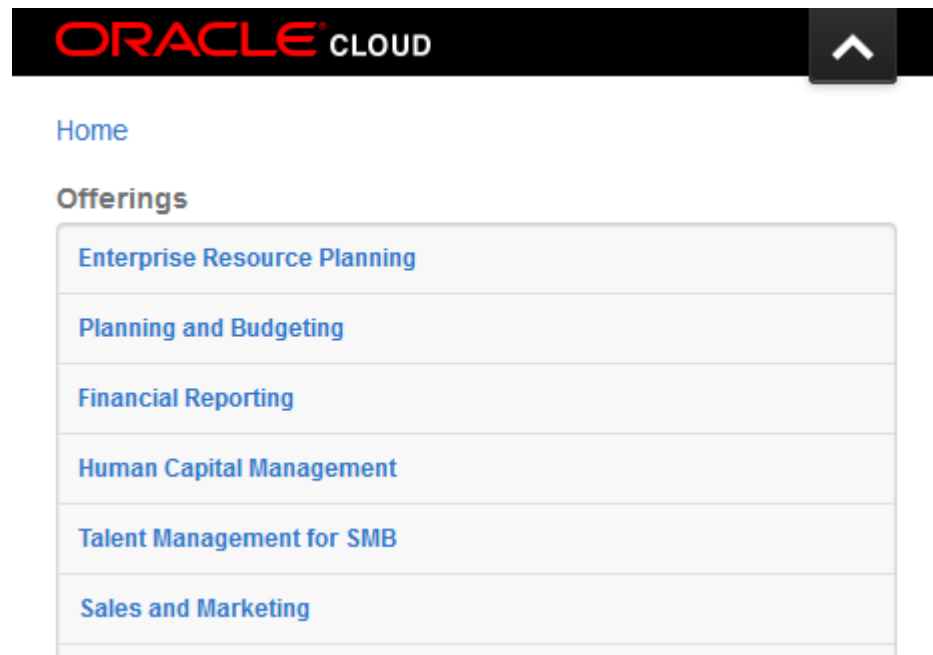
# Beispiel – oracle.cloud.com

- Feature 1 –  
Änderung der Komponente



Menü – große Darstellung

Menü – kleine Darstellung



# Beispiel – cloud.oracle.com - resizing

Oracle Cloud  
Social. Mobile. Complete.

[Learn More](#)



Oracle Cloud  
Social. Mobile. Complete.

[Learn More](#)



Oracle Cloud  
Social. Mobile. Complete.

[Learn More](#)



# Beispiel – cloud.oracle.com - rearranging

nebeneinander

untereinander




**Plan Effectively**  
Streamline your enterprise business processes

Enterprise Resource Planning

Planning and Budgeting PREVIEW

Financial Reporting PREVIEW



**Empower People**  
Realize the power of your employees

Human Capital Management

Talent Management



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**Empower People**  
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Human Capital Management

Talent Management

# Beispiel - cloud.oracle.com

The image shows a screenshot of the Oracle Cloud website homepage. At the top, the Oracle Cloud logo is on the left, and navigation links for Home, Offerings, Resources, and Sign In are on the right. The main header features the text "Oracle Cloud Social. Mobile. Complete." with a "Learn More" link. A video player shows a man speaking, with a large white box overlaid on it containing the text "LIVEDEMO". Below the video, a blue bar contains the text "Transform your business with Oracle Cloud" and a "Try it" button, along with "Chat Now" and "Contact Us" links. The main content area is divided into three columns:

- Plan Effectively**: Streamline your enterprise business processes. Includes links for Enterprise Resource Planning and Planning and Budgeting (PREVIEW).
- Empower People**: Realize the power of your employees. Includes links for Human Capital Management and Talent Management.
- Boost Sales**: Maximize revenues and engage customers. Includes a link for Sales and Marketing.

# Technik

- CSS3 Media Queries
  - Auswertung von Auflösung und Anzeigeeigenschaften
  - @media screen and (min-width: 320px) and (max-width:479px) {...}
  - Durch verschiedene „media queries“ werden die unterschiedlichen Darstellungen erzeugt

# Technik

- Mobile Portrait
  - @media screen and (min-width: 320px) and (max-width: 479px)
- Mobile Landscape
  - @media only screen and (min-width: 480px) and (max-width: 767px)
- Tablet Portrait
  - @media only screen and (min-width: 768px) and (max-width: 959px)
- Tablet Landscape
  - @media only screen and (min-width: 960px) and (max-width: 1024px)

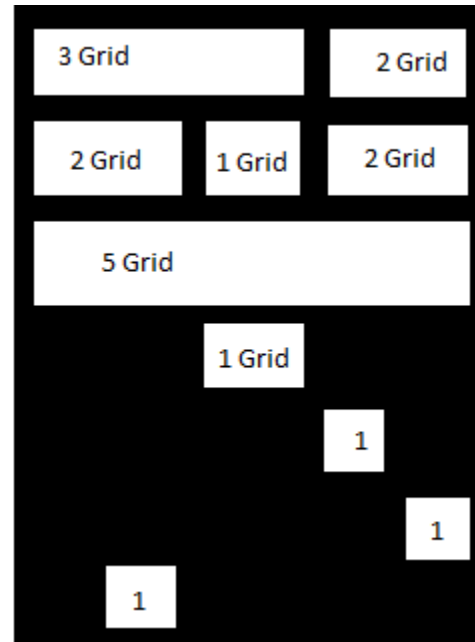
# Technik

Class	Phones	Tablets	Desktops
.visible-phone	Sichtbar		
.visible-tablet		Sichtbar	
.visible-desktop			Sichtbar
.hidden-phone		Sichtbar	Sichtbar
.hidden-tablet	Sichtbar		Sichtbar
.hidden-desktop	Sichtbar	Sichtbar	

# Technik

- Grid Layout

- einfach anzuordnen
- einfache Neupositionierung



# Responsive Design in APEX

- ab APEX 4.2.x
- Theme 25
- teilweise deklarativ
- Kein jQuery mobile
- Zuständiger Oracle Entwickler - Shakeeb Rahman
  - <http://apex.shak.us/>

# Responsive Design in APEX

- Grid Layout
  - Regionseinstellung
  - Ohne manuelle CSS Anpassungen
  - Kompatibel mit Frameworks wie twitter, bootstrap, 960 gs, etc.
  - Theme 25 bis 2560px
    - Unterstützt Tablets, Mobile und Desktops
    - Retina Display kompatibel
    - Eigene Icons

## Rasterlayout

<u>Neue Zeile starten</u>	<input type="text" value="Ja"/>
<u>Spalte</u>	<input type="text" value="4"/>
<u>Spaltenanzahl</u>	<input type="text" value="6"/>

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# Responsive Design in APEX

The screenshot displays a web application interface for a 'Sample Database Application'. The top navigation bar includes links for 'Home', 'Customers', 'Products', 'Orders', and 'Reports'. A search bar is located below the navigation, with the placeholder text 'Search customers, orders and product data'. The main content area is divided into two columns. The left column features a gauge chart titled 'Sales for this Month' with a needle pointing to the value '1,600'. The right column displays a table titled 'Top Customers' with a '+' icon and a right arrow. The table lists the following data:

Customer Name	Order(s)	Amount
<a href="#">Bradley, Eugene</a>	2 Order(s)	\$2,760.00
<a href="#">Logan, Edward</a>	2 Order(s)	\$2,420.00
<a href="#">Dulles, John</a>	1 Order(s)	\$2,380.00
<a href="#">Hartsfield, William</a>	2 Order(s)	\$2,370.00
<a href="#">LaGuardia, Fiorello</a>	1 Order(s)	\$1,090.00

The bottom of the interface shows a footer with various utility links: 'Home', 'Application 29779', 'Edit Page 1', 'Create', 'Session', 'Caching', 'View Debug', 'Debug', 'Show Edit Links', and 'Hide Grid'.

# Responsive Design in APEX

- Neue Icons im Theme 25
- High / Low Res



- Über neue Templates

**Attribute**

Statische ID

Schaltflächenstil

\* Schaltflächen-Template

Schaltflächentyp

Schaltflächen-CSS-Klassen

Schaltflächenattribute

# Fazit

- Für mobile Endgeräte optimal
  - Einmalige Entwicklung für beliebige mobile Endgeräte
  - Kein Android, iOS oder sonstiges Wissen außerhalb APEX nötig
  - Backend für Desktop/mobile Geräte gleich
- 
- Handarbeit nötig
  - HTML 5 und CSS3 Wissen ab bestimmten Grad nötig
  - Durchgehende Internetverbindung nötig



# Vielen Dank.

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