



# Responsive Layout

Responsive Web Design

Adaptive Web Design

Mobile browsing is expected to outpace desktop-based access within three to five years. [...] In short, we're faced with a greater number of devices, input modes, and browsers than ever before.

25.05.2010, Responsive Web Design, Ethan Marcotte



# Heutiger Stand

## Statisches Layout

- [informationsverbund.ch](http://informationsverbund.ch)
- [ub.unibas.ch](http://ub.unibas.ch)

## Flexibles Layout

- [ethz.ch](http://ethz.ch)
- [de.wikipedia.org](http://de.wikipedia.org)

## Mobiles Layout



# Berücksichtigte Endgeräte

Endgeräte mit  
grosser Auflösung

Endgeräte mit  
kleiner Auflösung



# Aktuelle Geräteklassen

PC / Mac

Notebook / Netbook

iPhone

iPad

Android  
Tablet

Android  
Smartphone



1117x670 781x439 1350x700 2560x1600 1786x1340 1024x720 1024x514 960x1467 1613x1008 797x448 1507x847  
320x396 768x1024 1280x682 960x540 1152x648 965x543 1264x940 1306x737 980x613 1536x960 1600x970

**1280x800** 1517x948 1276x708 1273x748 1264x700 1058x595 1265x961 1267x713 1336x1002 830x467  
1280x971 1344x840 1755x987 960x496 960x465 884x553 1204x752 480x854 720x1184 1024x1280 1280x744 1265x951  
1144x715 1280x961 1894x1116 800x1280 960x600 1170x936 1280x972 1280x854 1486x836 1772x997 800x480  
1467x825 1265x955 1366x712 1270x974 1072x670 1663x982 1596x942 1664x972 1376x774 1435x810 1776x1134  
1786x1005 942x530 1011x758 960x1279 960x1356 1280x1004 960x1420 **1600x900** 1206x917 1250x781 1120x840  
1280x977 1540x963 960x1440 1486x929 2701x1414 **1920x1080** 960x1523 1396x1047 1672x993 1688x949 1772x1000  
1069x668 1293x970 1170x878 1400x900 1146x645 1152x720 800x358 1202x751 1120x630 1515x797 960x1182  
1522x901 1525x858 1239x929 1600x1200 934x584 1213x758 1902x1123 904x565 1167x768 1466x916 1317x823  
1395x838 1843x1037 1862x1047 1584x862 914x514 2122x1326 1892x982 1229x983 1215x911 1961x1226 884x707  
1707x1067 1280x720 1264x946 1854x1058 1320x825 960x402 1205x678 1138x910 1894x996 1440x810 282x355  
1273x672 1311x737 480x800 1239x935 960x486 1728x972 1617x1293 996x623 1784x1075 1365x800 1152x870  
1152x768 1293x758 840x525 1920x1032 1105x622 754x603 1252x704 1088x614 1716x1072 1031x579 2960x1050

1463x1170 1264x722 1243x702 1229x768 1920x1138 1904x1122 960x468 1301x813 **1680x1050** 1000x800  
800x442 1920x1125 800x1270 1518x857 3840x1080 1280x975 819x614 1024x819 1012x768 960x1288 1902x1133  
1280x714 1050x788 1032x645 1138x640 1680x945 1896x1067 1336x1069 1366x706 360x640 960x1600 1525x857  
1603x1002 1400x1050 1239x697 1280x752 1274x958 1382x864 1326x746 800x450 240x320 480x360 1536x864  
1238x930 1347x700 1328x800 960x1547 1280x997 960x1197 1360x768 960x1350 1600x1080 1350x844 938x586  
470x697 1041x651 1440x800 1033x826 1839x1042 1280x964 800x1035 1772x1108 1386x780 1152x864 1360x710  
1843x1152 1191x893 1204x753 1272x946 1080x633 **1024x768** 1010x1209 1441x810 1265x964 1097x617 1257x730  
960x449 1364x768 1013x570 1588x1200 960x1203 1875x1172 1257x785 1143x857 1067x800 1584x822 **1920x1200**  
1634x919 1024x795 1038x778 1017x572 1600x768 1290x806 1167x656 1120x700 1184x666 3360x1050 1664x936

922x691 911x512 1238x931 995x622 1170x731 640x480 **1440x900** 1274x962 1416x827 960x426 1280x967  
1661x1038 1396x785 1200x900 960x1248 1231x769 1725x970 960x1635 1002x686 960x530 964x542 1424x837  
1350x690 960x1602 1629x1018 991x619 1842x1042 1280x950 1663x981 1259x946 989x618 1269x752 1402x877  
854x480 936x702 2025x1266 3072x960 1755x1097 1024x640 1877x938 1664x984 1229x691 2025x1139 960x1525  
1115x697 734x430 290x113 960x1368 1355x847 1522x801 819x480 2520x1575 1991x1244 1390x869 1257x941  
1065x666 960x1364 1519x949 1902x1139 2143x1340 1016x700 1280x654 360x480 1272x960 1117x845 2143x1206  
1093x614 1894x1126 960x1524 2065x1162 991x793 886x498 1273x682 1214x910 1821x1024 1280x968 1280x969  
**1024x600** 960x1448 1805x1063 1676x1047 960x1468 1245x701 1170x892 1280x927 2560x1540 1280x904 979x550

Others 640x360 1038x584 480x816 1080x810 1288x805 1254x784 1050x1680 2133x1200 960x723 **1366x768**  
1429x1143 320x480 1000x1000 1600x1024 320x450 1440x787 960x1464 919x689 1517x1214 1350x702 960x115  
1270x960 894x670 1272x996 1106x829 936x549 853x640 1904x1002 2048x1280 1272x968 1427x892 1265x948  
960x1705 1140x641 1067x667 1024x576 1280x768 960x482 927x696 1224x768 1429x804 800x600 1192x670 1024x712  
1333x750 960x1380 1584x832 1904x1134 1025x576 1272x732 1678x966 1280x738 1067x600 1090x681 1655x967  
1280x960 1818x1071 1008x522 1914x1018 1619x910 1265x950 1280x778 2048x819 1467x860 1249x702 1117x894  
3840x1200 2560x1024 853x683 1603x902 1920x1153 1424x822 1400x875 1429x893 1904x1012 1429x857 1117x628  
5120x1024 1350x1080 1191x670 1280x900 1291x726 1652x929 1511x850 1280x756 1514x984 320x240 1117x698  
1607x1005 1608x1005 1160x725 1902x1126 1320x827 960x492 2048x1152 855x641 991x595 953x572 960x461  
1264x928 960x716 1214x925 1350x810 1376x860 1920x1440 707x530 1280x994 1776x1000 1365x1024 1205x753

1069x855 1200x1600 1676x943 1536x1152 972x729 **1280x1024** 1463x823 1440x852 983x737 1222x764  
1326x829 960x430 1600x1000 1588x940 1363x716 1440x850 983x576 894x524 800x1183 1173x733 1268x964 1368x768  
1336x751 1825x840 953x762 1054x659 1004x585 1214x711 1680x1000 1143x670 1264x734 2276x1422 960x502  
1440x960 917x734 1088x612 1170x658 943x530 1152x800 960x1596 720x1280 1902x1130 1707x1365 480x762  
1067x853 540x922 1594x838 2560x1440 1674x982

# Auflösungen am Beispiel informationsverbund.ch



# Wie funktioniert Responsive Layout?

Theorie

Skalierung und Verschiebung von Blöcken in  
Abhängigkeit von Endgerät und Auflösung

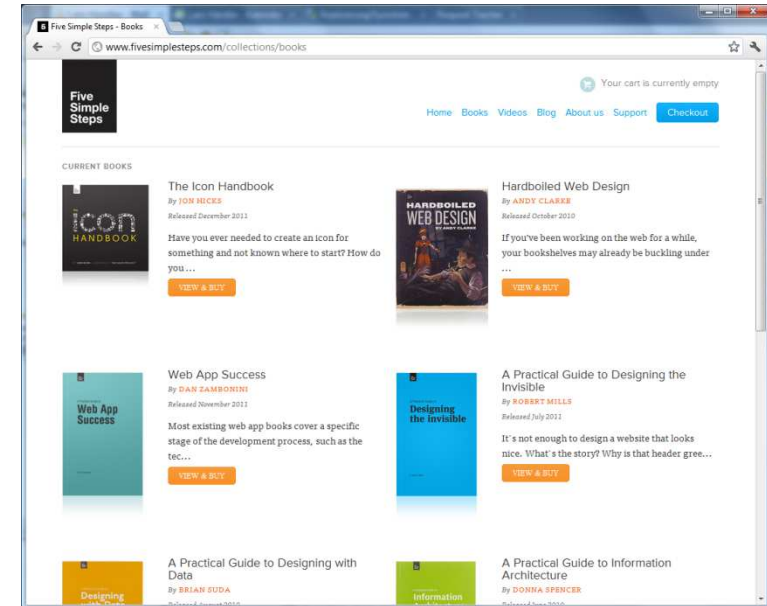
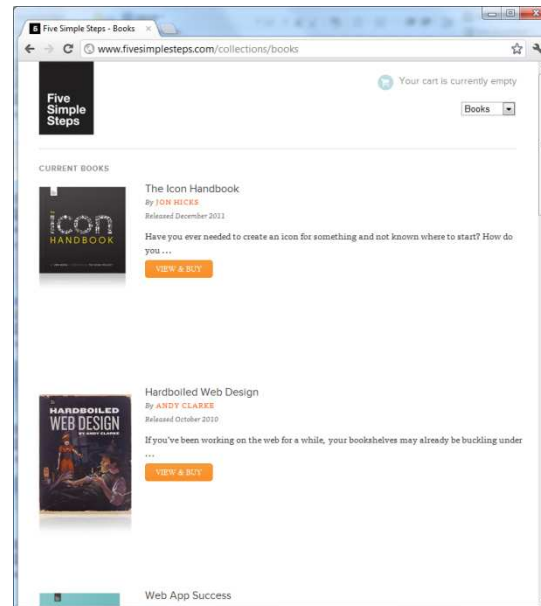
Unterteilung  
des Inhalts in  
Blöcke

Optische und physische  
Skalierung von Bildern



# Wie funktioniert Responsive Layout?

## Praxis – Beispiel 1

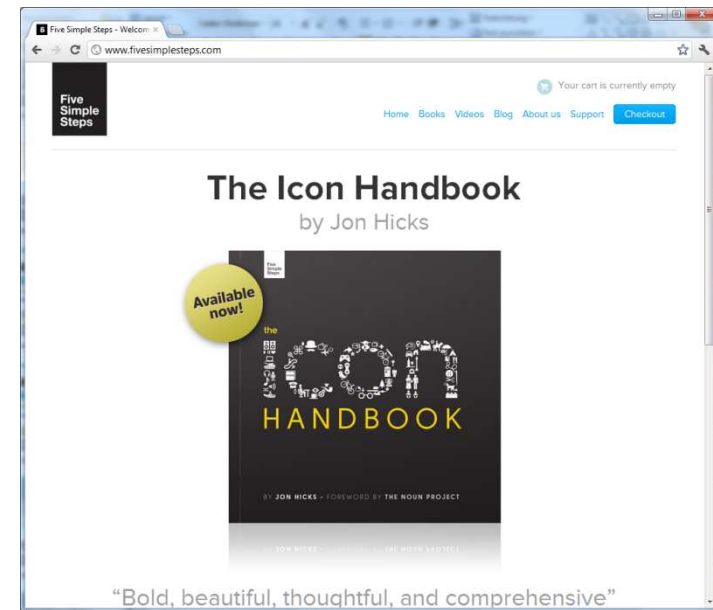
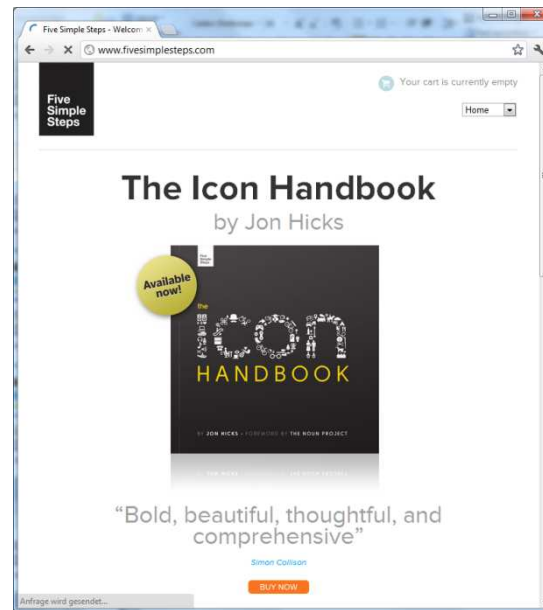


<http://www.fivesimplesteps.com/collections/books>



# Wie funktioniert Responsive Layout?

## Praxis – Beispiel 2



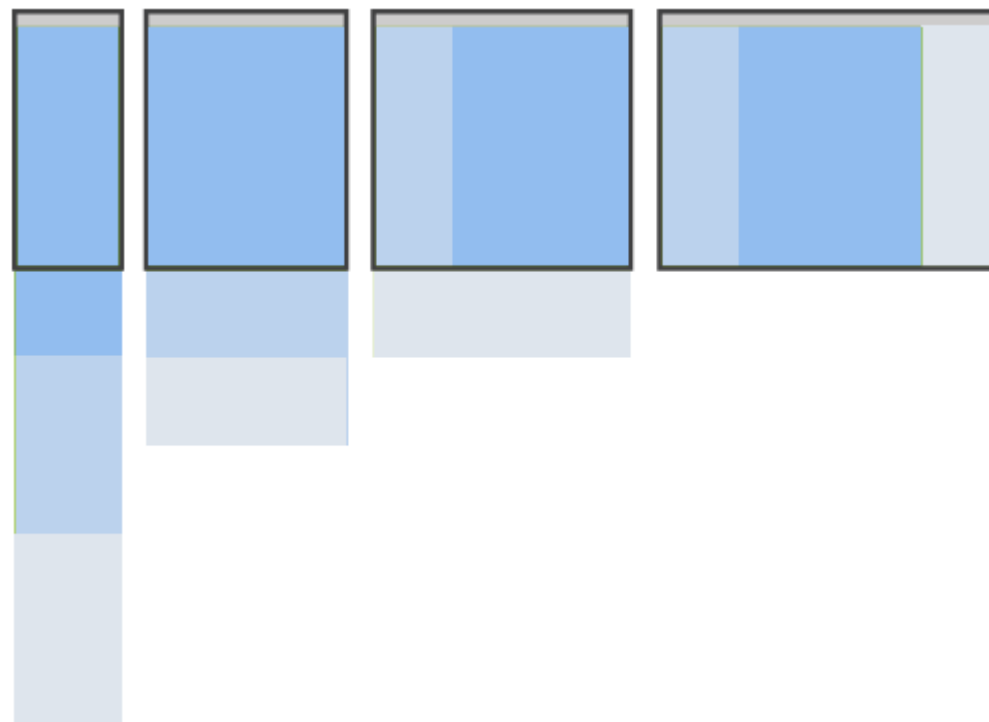
<http://www.fivesimplesteps.com>





# Wie funktioniert Responsive Layout?

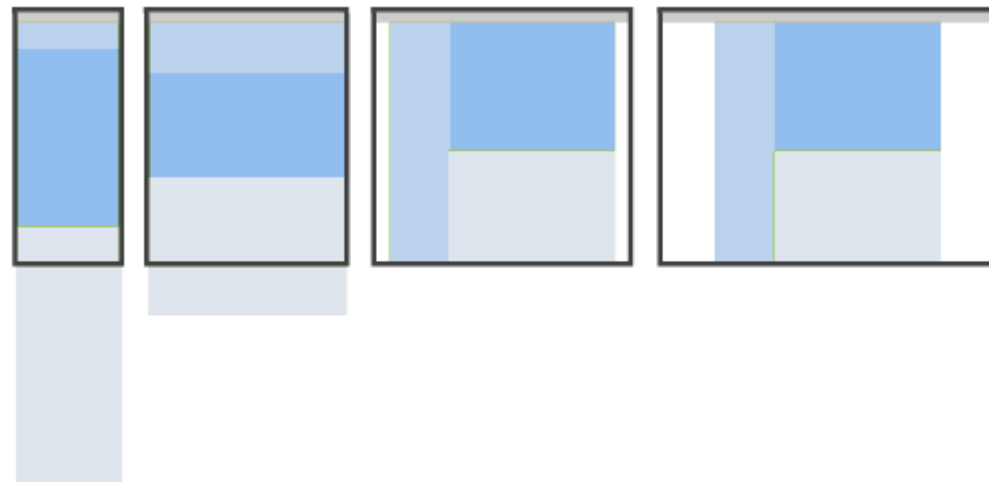
## Struktur – Beispiel 1





# Wie funktioniert Responsive Layout?

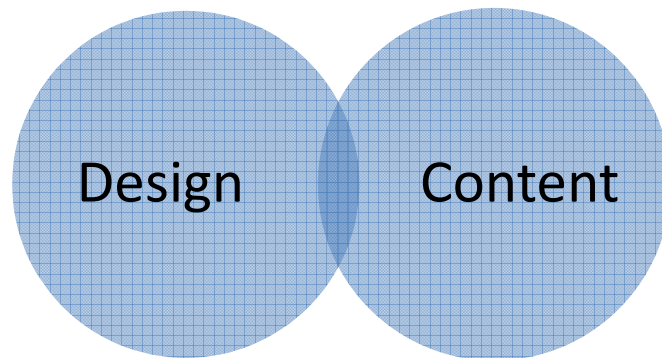
## Struktur – Beispiel 2



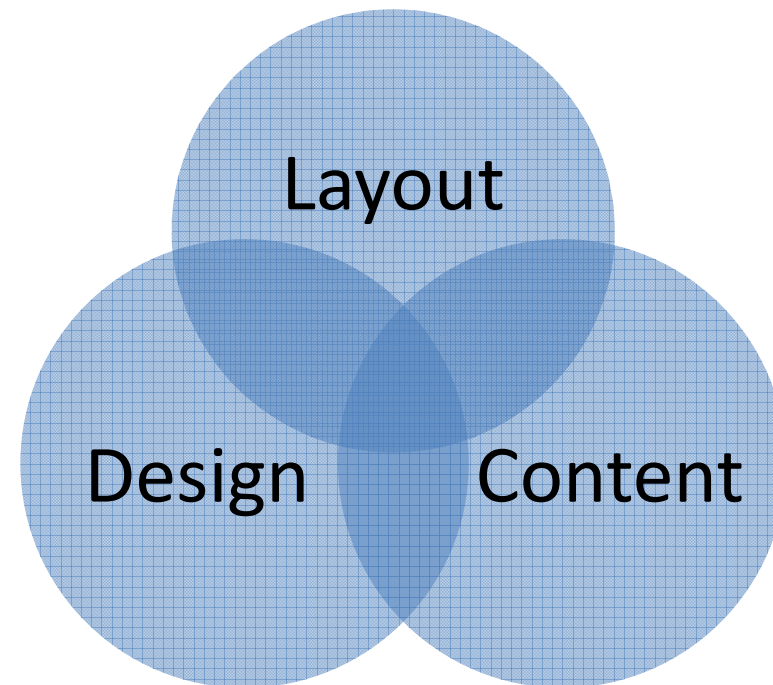


# Aufteilung der Aufgaben

Klassisches Layout

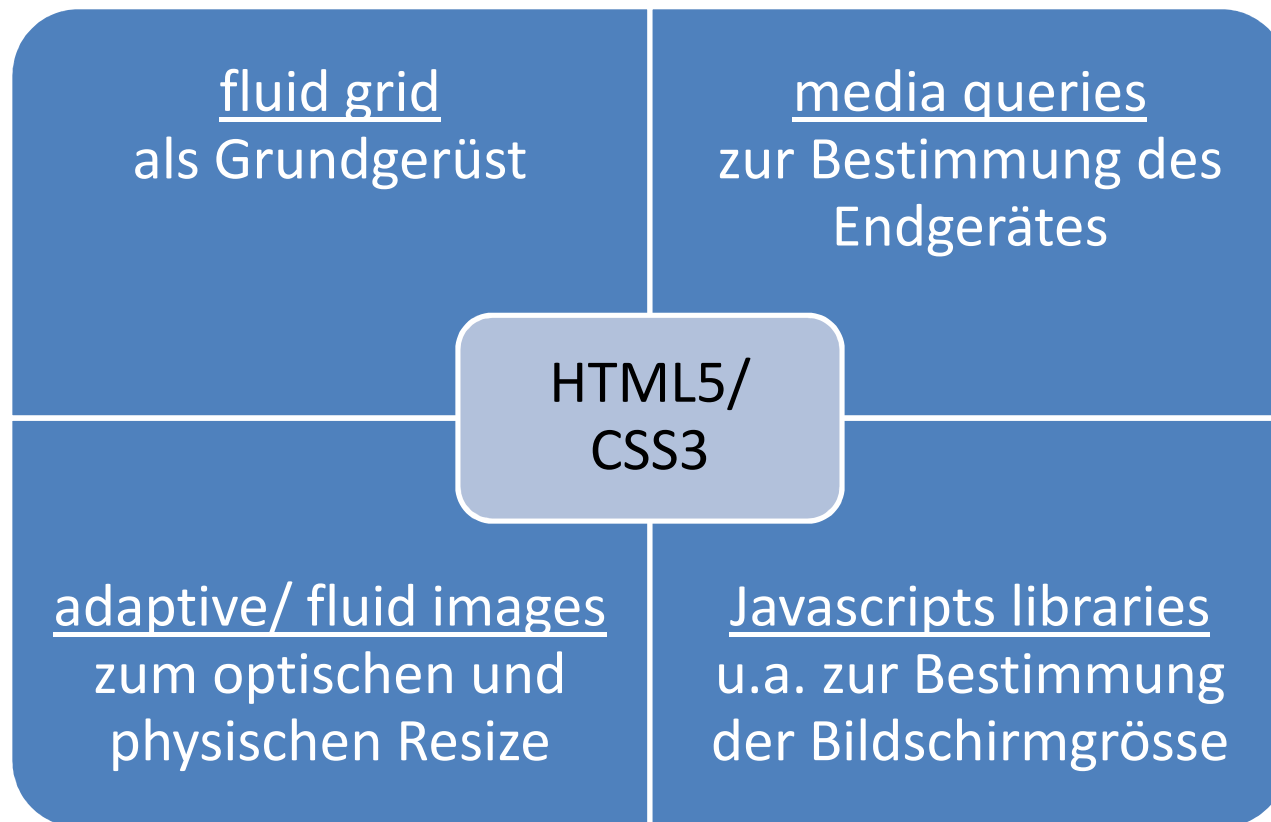


Responsive Layout





# Technische Bestandteile





# Was bedeutet das für uns?

Responsive Layouts eine „junge“  
Lösung für die Flut der Endgeräte

Responsive Layouts bei Planung  
von Relaunches einbeziehen

Responsive Layouts bei Evaluation  
neuer Software berücksichtigen



# Zum Vertiefen

## **Responsive Webdesign Einführung**

<http://www.alistapart.com/articles/responsive-web-design>

<http://www.netmagazine.com/features/50-fantastic-tools-responsive-web-design>

## **Fluid Grid**

<http://goldengridsystem.com>

<http://gridpak.com>

## **Images**

<http://adaptive-images.com>

## **Helfer**

<http://bradfrostweb.com/blog/web/responsive-nav-patterns/>

<http://www.thismanslife.co.uk/projects/lab/responsivewireframes/>

<http://resizemybrowser.com/>