



ICT-Start - Session 01

Module 2: Creating static web pages using HTML5 and CSS3

M) Responsive Layout

December 2022



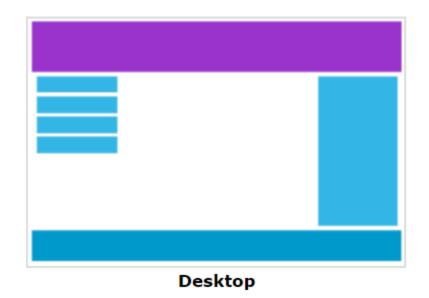






Responsive design

- Automatically resize, hide, shrink, or enlarge, a website, to make it look good on all devices (desktops, tablets, and phones)
- Why does a responsive design matter?

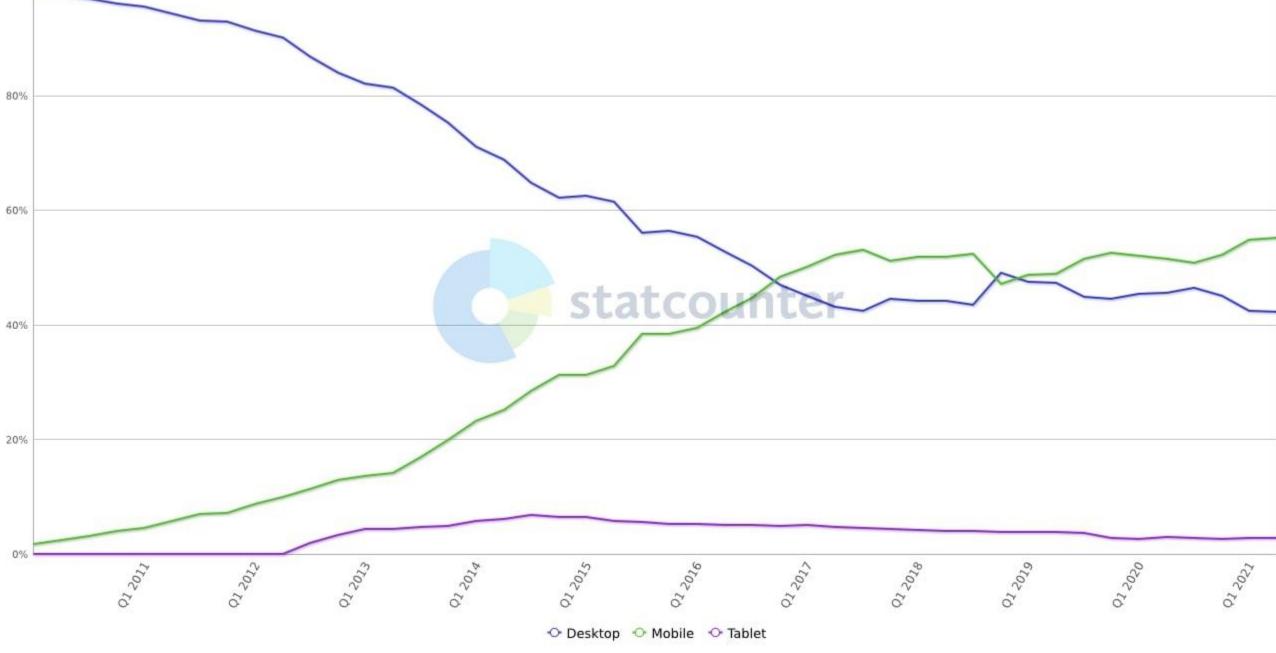








StatCounter Global Stats Desktop vs Mobile vs Tablet Market Share Worldwide from Q1 2010 - Q2 2021 100% 80%





CONTENT IS LIKE WATER



You put water into a cup it becomes the cup.
You put water into a bottle it becomes the bottle.
You put it in a teapot, it becomes the teapot.









Responsive design

- Many ways to achieve
- Main ideas and best practices will be presented









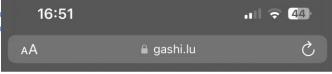
Viewport

- Part of the document you're currently viewing
- By setting the viewport to the device width, the browser can adjust and scale it's content
- Special meta tag:

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```







Viewport

with VP

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http://edulink.lu/ixtr



Viewport

without VP

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CSS Media queries

• Simple filters to change styles based on the type or features of devices (e.g. width, height, orientation, etc)

```
@media screen and (min-width: 1000px){
   /* CSS code for PC's/Notebooks */

@media screen and (max-width: 1000px) {
   /* CSS-code for smartphones and tablets */
```





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Header

Linkl
Link2
Link3
Link4
....

Footer

```
<style>
.grid-item {
 background-color: lightgray;
 border: 1px solid black;
 font-size: 30px;
 @media screen and (min-width: 1000px){
   /* CSS code for PC's/Notebooks */
    .grid-container{
     display: grid;
      grid-template-columns: 200px auto ;
      grid-template-rows: 120px auto 80px ;
      grid-column-gap: 20px;
      grid-row-gap: 20px; /* or grid-gap for column+row */
     text-align: left;
     min-height: 1000px;
    .grid-header, .grid-footer{
     grid-column: 1 / span 2;
     text-align: center;
 @media screen and (max-width: 1000px) {
    /* CSS-code for smartphones and tablets */
```





Header

Link1 Link2 Link3 Link4 ...

Content...

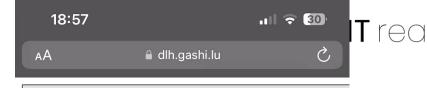








Working with tables





Header

Link1 Link2 Link3 Link4 ...

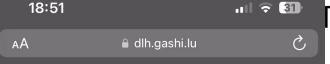
One tail	0.05	0.025	0.01
Two tails	0.1	0.05	0.02
df			
1	6.3138	12.7062	31.82
2	2.9200	4.3027	6.964
3	2.3534	3.1824	4.540
4	2.1318	2.7764	3.746
5	2.0150	2.5706	3.3649
6	1.9432	2.4469	3.142
7	1.8946	2.3646	2.998
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Working with tables

```
main{
     overflow-x: scroll;
 </style>
</head>
<body>
 <div class="grid-container">
   <header class="grid-item grid-header">Header</header>
   <aside class="grid-item grid-left-menu">■
   <main class="grid-item grid-content">
     One tail
   0.05
   0.025
```





Link1 Link2 Link3 Link4 ...

One tail	0.05	0.025	0.01
Two tail	s 0.1	0.05	0.02
df			
1	6.313	8 12.706	231.82
2	2.920	04.3027	6.964
3	2.353	43.1824	4.540
4	2.131	82.7764	3.746
5	2.015	02.5706	3.364
6	1.943	22.4469	3.142
7	1.894	62.3646	2.998

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General tips

- Set the viewport
- Work as much as possible with percentages for widths
- Use CSS Grid for the layout
- Use CSS Media Queries to handle different screen sizes
- Define a scroll for horizontal overflows









Exercices

