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Mohammed Abu-Hadhoud

MSA, PMOC, PMP®, PMP®, PMP-ITIL®, CS, ITIL®, MCPD, MCSD



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مهم جداً

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20٪ مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

يجب عليك مشاهدة فيديو الدرس كاملا

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الأسعار الخاصة بالكورسات رمزية للغاية ولا تمثل 1% من قيمتها الفعلية، ومع ذلك تتوفر كوبونات دعم لكل طالب محتاج.

عند شراء الكورس، فهو مخصص لك وحدك، ولا يحق لك القيام بما يلي:

- تحميل الفيديوهات وتوزيعها.
- مشاركة حسابك مع الآخرين.
- الاشتراك في شراء الكورس مع أصدقائك، حيث يحق لكل فرد كوبون دعم إذا كان بحاجة إليه.
- استخدام كوبون دعم دون وجه حق.

إن مخالفة هذه التعليمات قد تؤدي إلى إغلاق المنصة، مما يحرم آلاف الطلاب من فرصة التعلم. وستكون مسؤولاً أمام الله عن ذلك، وأنا لن اسامح من يسيء استخدام هذه المنصة.

تذكر أن الله لا يبارك في عمل مبني على أخذ حقوق الآخرين أو حرمانهم من التعلم. لا تبدأ حياتك بما لا يرضي الله.

مع تحياتي، د. محمد أبو هدهود





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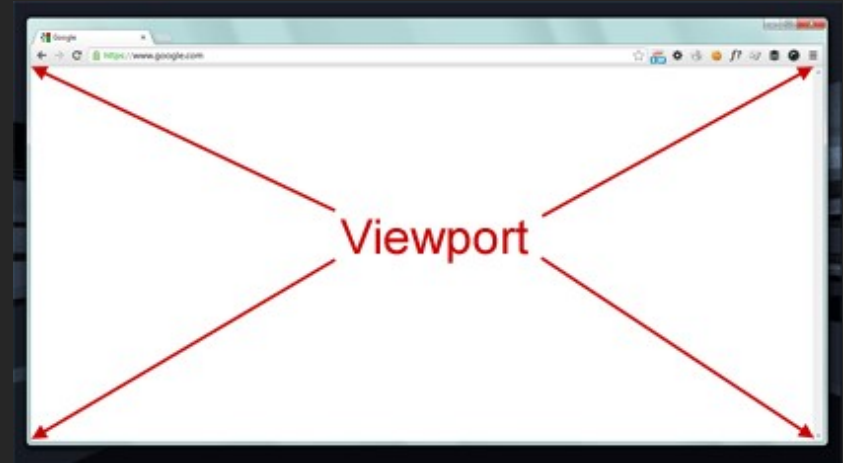
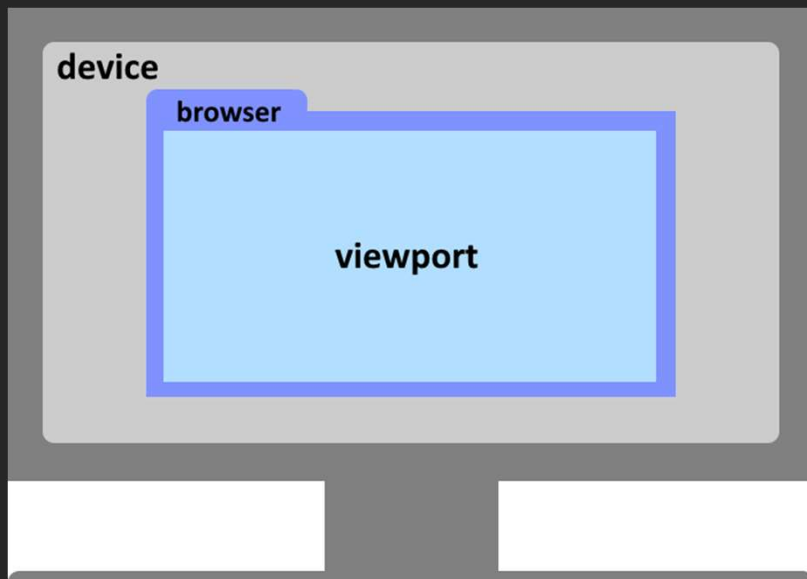
HTML DEEP DIVE

Dr. Mohammed Abu-Hadhoud
DBA, MBA, PMOC, PgMP®, PMP®, PMI-RMP®, CM, ITILF, MCPD, MCSD



Responsive Design and Viewports (Simple Introduction)

Viewport



Visible area of a web page that a user can see on their screen at any given time



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Example:

- Visit: <https://programmingadvices.com/courses>
- Try to minimize and change the width of the screen and see how the design is responsive to your changes.

That is Responsive Design

What is responsive design?

- Responsive design is a web development approach that creates dynamic changes to the appearance of a website, depending on the screen size and orientation of the device being used to view it.
- The goal is to ensure that a website looks good and functions well on all devices, including desktops, tablets, and smartphones.
- This is achieved by using flexible layouts, images, and CSS media queries to adapt the content and layout based on the available viewing space.
- The result is a seamless user experience across different device sizes without the need for device-specific websites.

Introduction – Viewports

- The term viewport in web development refers to the visible area of a web page that a user can see on their screen at any given time.
- It is essentially the part of the browser window that displays the content of a website.
- The size and dimensions of the viewport can vary widely because they depend on the device being used to view the content, such as a desktop monitor, a laptop, a tablet, or a smartphone.

Introduction – Viewports

- The viewport varies with the device, and will be smaller on a mobile phone than on a computer screen.
- Before tablets and mobile phones, web pages were designed only for computer screens, and it was common for web pages to have a static design and a fixed size.
- Then when we started surfing the internet using tablets and mobile phones, fixed size web pages were too large to fit the viewport. To fix this, browsers on those devices scaled down the entire web page to fit the screen. That was a quick fix. (not perfect).

Key Aspects of the Viewport:

- **Device-Specific:** The size of the viewport differs based on the device. For instance, the viewport on a mobile phone is much smaller than on a desktop screen.
- **Scalable:** On mobile devices, users can often pinch to zoom in and out, changing the scale of the viewport. This can affect how content is displayed and how interactions are handled.
- **CSS Layout:** In web design, the viewport is a crucial concept for responsive design. CSS media queries allow designers to apply different styles based on the viewport size, enhancing the user experience by optimizing the layout for various screen sizes.

Setting Viewport:

- Viewport Meta Tag: In HTML, the `<meta>` tag with the `name="viewport"` attribute is used to give the browser instructions on how to control the page's dimensions and scaling. For example:

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

- This tag sets the width of the viewport to match the device's width and initializes the zoom level to 1, which means no initial zoom.
- This is particularly important for making a website mobile-friendly, as it ensures that the page is sized properly for different devices.

Without the viewport meta tag

Trip to Tailand:



On a vibrant journey through Thailand, the traveler experienced the rich tapestry of culture and nature that defines this beautiful land. From the bustling streets of Bangkok, filled with the aromatic scents of street food and the harmonious chaos of tuk-tuks whizzing by, to the tranquil beaches of Phuket, where the sunset painted the sky in shades of orange and pink, each moment was a discovery. The ancient ruins of Ayutthaya offered a poignant glimpse into Thailand's storied past, and the lush jungles of Chiang Mai whispered secrets of the wild. This trip was not just a visit to a foreign country; it was an immersion into a diverse, vibrant, and profoundly spiritual world that left the traveler with memories to cherish forever.

With the viewport meta tag

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Why the Viewport Matters:

- User Experience:

- A correctly sized viewport ensures that content is legible and that the layout is appropriate for the device's screen size. This prevents users from having to constantly scroll horizontally or zoom in and out to read content, making the website more accessible and easier to use.

- Design and Development:

- Understanding the viewport is essential for developers and designers to create responsive websites that function well on any device. It influences many aspects of web design, from layout and font sizing to interactive elements and navigation structures.

Viewport Sizes

- The viewport sizes can vary significantly across different devices due to the diversity in screen sizes and resolutions. Here's a general overview of typical viewport sizes you might encounter across various categories of devices.
- Note that these sizes are approximate and can vary depending on specific device models and settings, such as when a user adjusts the default font size or zoom level in their browser.

Typical Viewport Sizes by Device Type

- Mobile Phones:

- Small smartphones: Screen width: 320px to 360px
- Medium smartphones: Screen width: 360px to 414px
- Large smartphones: Screen width: 414px to 480px

Typical Viewport Sizes by Device Type

- Tablets:
 - Small tablets (e.g., small iPads, Android tablets):
 - Screen width: 600px to 768px
 - Large tablets (e.g., standard iPads, larger Android tablets):
 - Screen width: 768px to 1024px

Typical Viewport Sizes by Device Type

- Laptops:
 - Small laptops (e.g., 11" to 13" screens):
 - Screen width: 1024px to 1366px
 - Medium to large laptops (e.g., 15" to 17" screens):
 - Screen width: 1366px to 1920px

Typical Viewport Sizes by Device Type

- Desktops:
 - Small to medium desktops:
 - Screen width: 1280px to 1920px
 - Large desktops:
 - Screen width: 1920px and above

Typical Viewport Sizes by Device Type

- Large Screens:
 - Monitors and TVs:
 - Screen width: 1920px to 2560px and higher

Conclusion

The concept of the viewport is fundamental in modern web development, particularly in the context of responsive and adaptive design strategies that aim to provide optimal viewing experiences across a diverse range of devices and screen sizes.



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Thank You

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