

Presentation on
RESPONSIVE
IMAGE?

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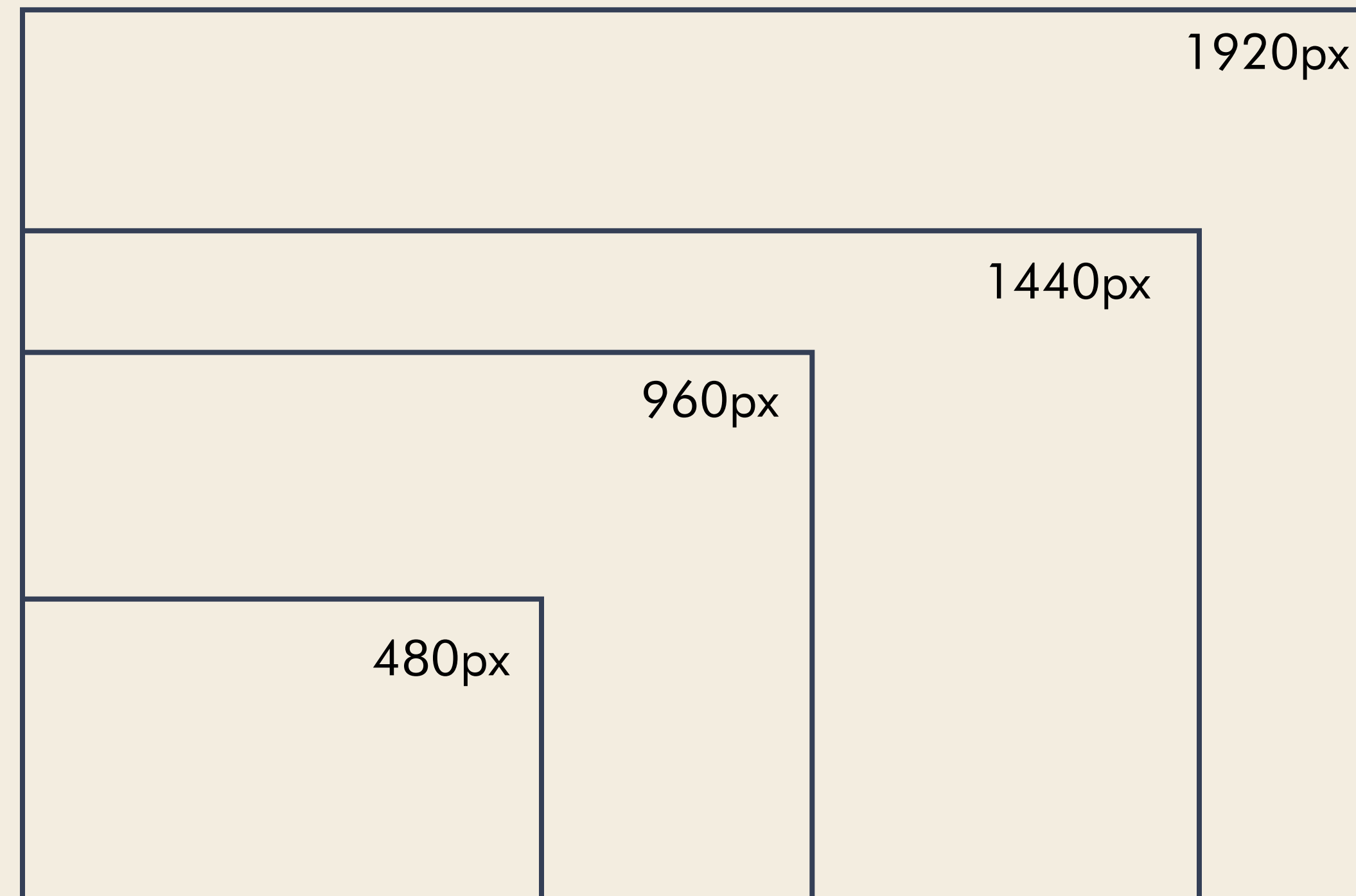
WHAT IS RESPONSIVE IMAGE?



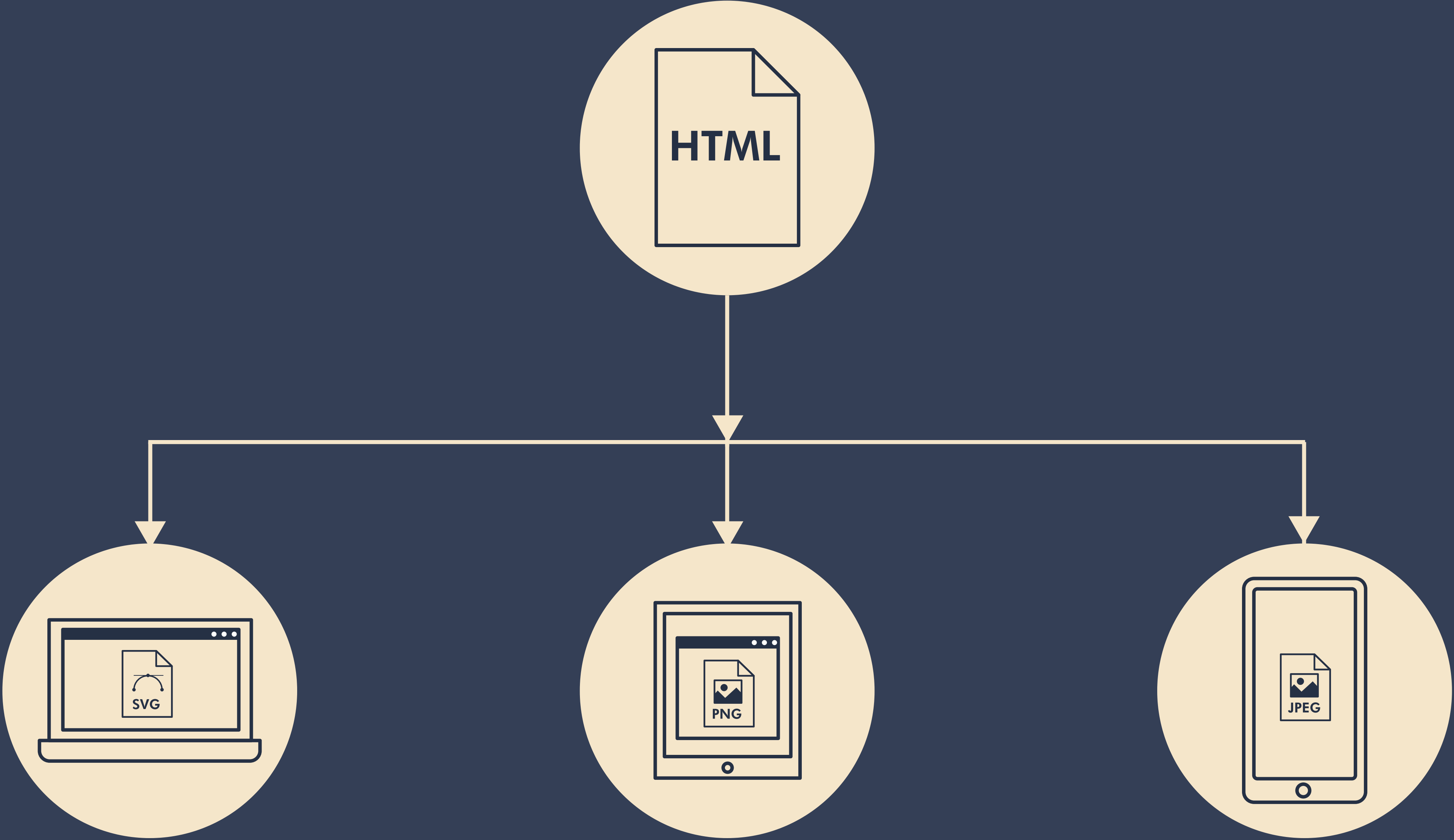
Responsive images are images that are designed to adapt and display appropriately on different screen sizes and resolutions, in order to provide a consistent and optimized user experience across a wide range of devices.



A method to display an image from multiple images provided to the browser depending on the screen size.



Responsive images are images that can adapt to different screen sizes and resolutions in order to optimize the user experience on various devices, including desktops, laptops, tablets, and smartphones.





What are the use cases?

- Resolution Switching
- Art Direction





Resolution Switching

- Displaying the image with the same aspect ratio but in different sizes.
- High resolution image for larger screen size and low resolution for small screens.
- By using two attributes; `<srcset>` and `<sizes>`





<srcset> & <size>

- srcset is used for img source followed by the width of the original image
- Sizes is used for media condition to tell the browser which image to choose

```
1
2 
```

Diagram annotations: "image url" points to the URLs in the srcset attribute; "image width" points to the width values (480w, 680w, 1024w); "width slot" points to the width values in the sizes attribute.





<srcset>

Chrome	Edge *	Safari	Firefox	Opera	IE	Chrome for Android	Safari on iOS *	Samsung Internet	Opera Mini *	Opera Mobile *	Browser for Android	Android Browser *	Firefox for Android	QQ Browser	Baidu Browser	KaiOS Browser
4-33	² 12	3.1-7	2-31	10-20			3.2-7.1									
² 34-37	³ 13-15	² 7.1-8	¹ 32-37	² 21-24			² 8-8.4									
38-109	16-109	9-16.2	38-109	25-94	6-10		9-16.2	4-18.0		12-12.1		2.1-4.4.4				
110	110	16.3	110	95	11	110	16.3	19.0	all	73	13.4	109	110	13.1	13.18	2.5
111-113		16.4-TP	111-112				16.4									





Art Direction

- For designers to display specific images based on the screen sizes.
E.g. a landscape img on wider screens and a cropped image focusing only on the details for mobile screens.
- Using `<picture>` element with `<source>` and `` element.
- `img` tag is required to work and works as fallback if browser doesn't support `picture`

```
1
2 <picture>
3   <source media="(min-width: 1024px)" srcset="/images/pablo-dominguez-large.jpg" />
4   <source media="(min-width: 768px)" srcset="/images/pablo-dominguez-small.jpg" />
5   
6 </picture>
7
```





<picture>

Chrome	Edge *	Safari	Firefox	Opera	IE	Chrome for Android	Safari on iOS *	Samsung Internet	Opera Mini *	Opera Mobile *	Browser for Android	Android Browser *	Firefox for Android	QQ Browser	Baidu Browser	KaiOS Browser
4-36			2-33	10-23												
¹ 37 ²	12	3.1-9	³ 34-37 ⁴	24 ⁵			3.2-9.2									
38-109	13-109	9.1-16.2	38-109	25-94	6-10		9.3-16.2	4-18.0		12-12.1		2.1-4.4.4				
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111-113		16.4-TP	111-112				16.4									





Why do we use Responsive Image?





- Mobile usage
- Faster page load times
- Better SEO
- Improved user experience
- Increased accessibility





Thank You