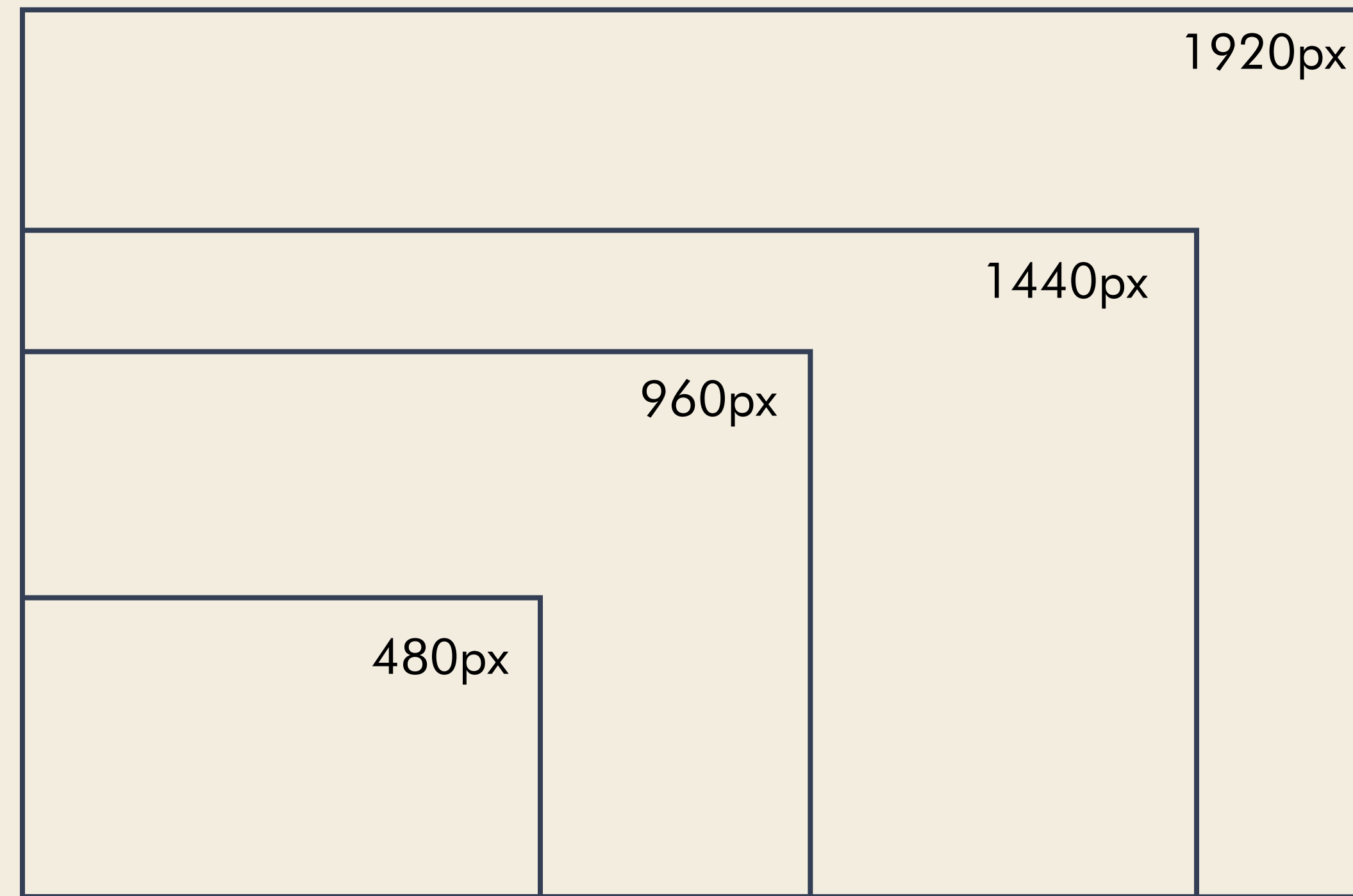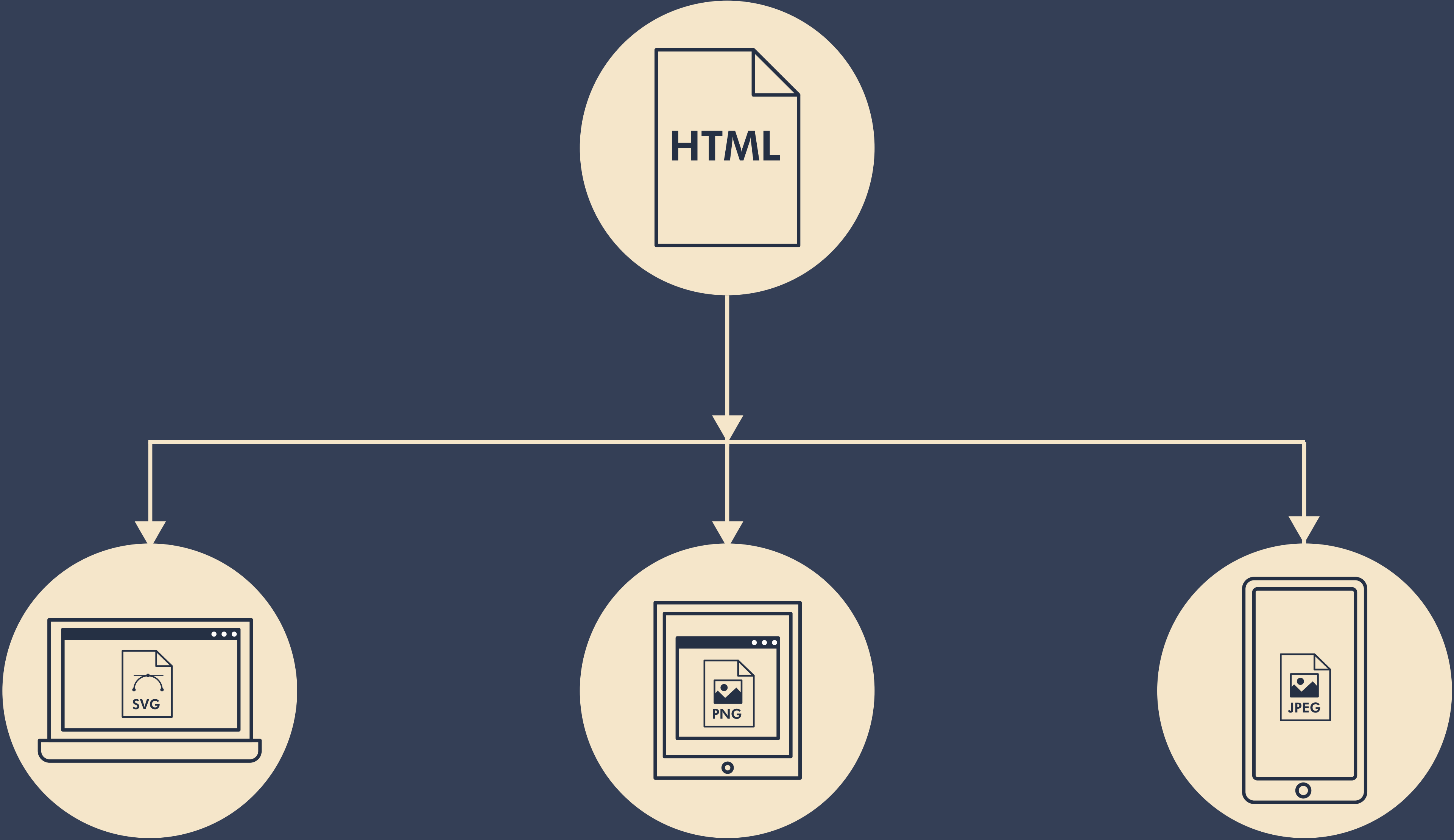# WHAT IS RESPONSIVE IMAGE?

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

`<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	12	3.1-7	2-31	10-20			3.2-7.1									
34-37	13-15	7.1-8	32-37	21-24			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 <img> element.
- img tag is required to work and works as fallback if browser doesnt 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      <img src="/images/pablo-dominguez-small.jpg" alt="fantasy mountains">
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												
37	12	3.1-9	34-37	24			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			
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									

Why do we use Responsive Image?

- Mobile usage

- Faster page load times

- Better SEO

- Improved user experience

- Increased accessibility

Thank You