

Video Resolutions & Aspect Ratios

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4K, HD, SD | 4:3 (1.33:1); 16:9 (1.78:1)



Standard Definition

4:3 (1.33:1)
640 × 480px



High Definition

16:9 (1.78:1)

1280 x 720

1920 x 1080



4K

16:9 (1.78:1)
3840 × 2160

Other Formats

- 35mm
- 75mm
- Cinerama
- Imax
- VR / Stereoscopic
- Game Engine Optimized

History of Aspect Ratio

- History of Aspect Ratios
<https://nofilmschool.com/2013/06/visual-history-of-aspect-ratio>
- Brainstorm: Trumbull's Vision <https://www.wired.com/1997/01/fftrumbull/>
- Google and LG Display have made the highest resolution VR screen yet
<https://www.engadget.com/2018/05/25/google-and-lg-display-have-made-the-highest-resolution-vr-screen/>
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On Our **Boilerplate** Today

- “boilerplate refers to sections of code that have to be included in many places with little or no alteration.” -

https://en.wikipedia.org/wiki/Boilerplate_code#HTML

> Lab2 (folder)

> home.html

> style.css

> pure-min.css

Responsive Images

- We are going to use the concept of aspect ratios and screen resolutions as a springboard to discussing the “WHYs” and “HOWs” of responsive image design on web sites.
- What are some ways we can control image sizes, why are some problematic while others are ideal?