

## Display Resolution

**2a.** The computational innovation represented in my artifact is Display Resolution. Display Resolution uses technology to output visual media in Low or High quality resolution. The artifact illustrates the differences between resolutions. The resolutions are 144p, 240p, 360p, 480p, 720p, 1080p, 2k(2048p), and 4k(2160p). 144p being the lowest resolution and 4k(2160p) being the highest.

**2b.** I used a software called Google Drawings. I picked a color that popped for the background, which was the color red. Then, I searched the internet for images that matched the topic of my computational artifact. My computational device(Display Resolution), uses RGB values. Which is the values of Red, Blue, and Green.

**2c.** A beneficial effect that Video Resolution has is that it can allow people to enjoy what they are watching because of the good quality of a display. One negative effect that it can have is that people will be angered by the bad quality of a image/video.

**2d.** Display resolution outputs the images and videos you see. Whether it be on your TV or your cell phone. In some cases, it uses wifi to display higher resolutions such as 4k. For example, if you use Youtube, you may have the choice to choose the resolution of the video you are watching.

## Fun Facts

- 720p = 1280 x 720 - is usually known as HD or “HD Ready” resolution
- 1080p = 1920 x 1080 - is usually known as FHD or “Full HD” resolution
- 1440p = 2560 x 1440 - commonly known as QHD or Quad HD resolution, and typically seen on gaming monitors and on high-end smartphones. 1440p is four times the resolution of 720p HD or “HD ready”.

- 2160p = 3840 x 2160 - commonly known as 4K, UHD or Ultra HD resolution. It's a very large display resolution and it's found on high-end TVs and monitors. 2160p is called 4K because it offers four times the resolution of 1080p FHD or "Full HD".

2e.

1. <https://www.lifewire.com/720p-vs-1080p-a-comparison-1847332>, By Robert Silva, "720p vs 1080p - A Comparison," source: Lifewire, date viewed: 11/30/17, posted: 11/2/17.
2. <https://www.quora.com/What-is-the-difference-between-1080p-480p-720p-Bluera-y-BRRIP-CAM-DVDrip-DVDSCR-Hdrip-HDTS-HDTV-or-WebRip>, By Grammarly, "What is the difference between 1080p, 480p, 720p, Bluera y, BRRIP, CAM, DVDrip, DVDSCR, Hdrip, HDTS, HDTV or WebRip?," source: Grammarly, date viewed: 12/4/17.
3. <https://www.digitalcitizen.life/what-screen-resolution-or-aspect-ratio-what-do-720p-1080i-1080p-mean>, By Codrut Neagu, "Screen resolution? Aspect ratio? What do 720p, 1080p, QHD, 4K and 8K mean?," source: Digital Citizen, date viewed: 12/4/17, date posted: 5/20/16.