

More, Faster and Better Pixels

- Faster pixels
 - Higher frame rates
- Better pixels
 - High Dynamic Range
 - Wide Color Gamut
- Current standards: more & faster
- ITU BT.2020 is main technical specification
 - UHD1 (2160p, “4K”), UHD2 (4320p, “8K”)
 - Sports wants higher frame rates too
 - Doesn’t address high dynamic range at all
- CE & broadcasters focused mostly on more and faster pixels
- Movie industry needs to advocate for better pixels

MovieLabs Next Generation Video Spec

- Common studio position on what's needed for future Home Entertainment video
 - Developed by MovieLabs with a technical committee of all six of its member studios
- As *basis* for work in standards and disc & file format groups
 - SMPTE, MPEG, then UltraViolet, etc.
- Deltas from existing BT.2020
 - Frame Rates (adds 48fps, higher future rates)
 - High Dynamic Range (up to 100x peak brightness)
 - Full-Gamut Color (XYZ, like digital cinema)
 - Mastering Display Metadata (new)
- At <http://movielabs.com/ngvideo>