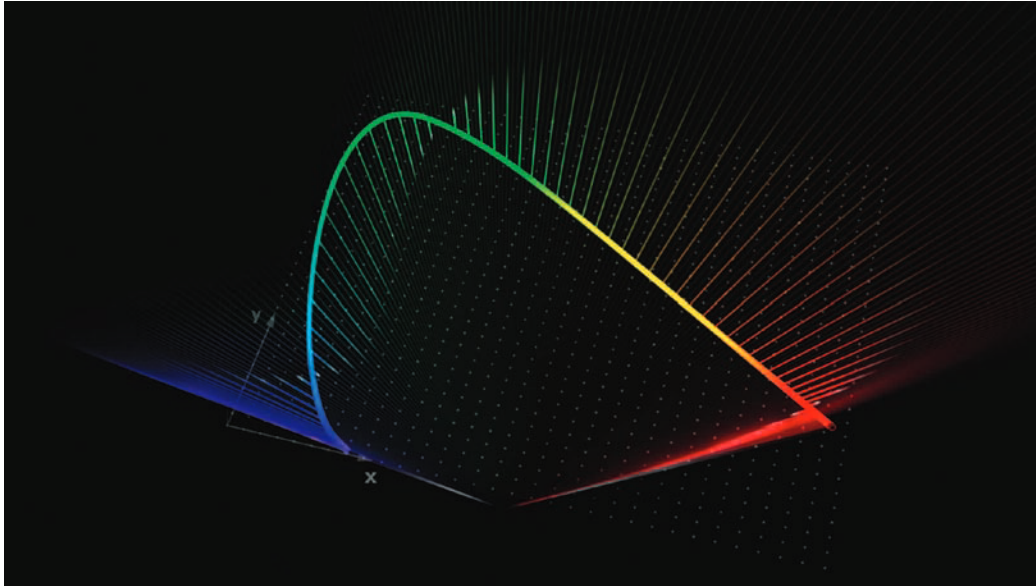


# Visualizing the XYZ Color Space

USA, Scientific Visualization, 02:39



Development of the standard for digital-cinema colorimetry presents the problem of how to represent color in a manner that will accommodate future developments in display technology. Unfortunately, RGB coordinates tied to a physical display device are not ideal, as they intrinsically limit the gamut to only a fraction of colors visible in the real world. Thus, the solution is to use the 1931 CIE XYZ primaries, which allow for positive-valued specification of all visible colors.

## HARDWARE & SOFTWARE

Hardware:

Linux PCs

Software:

SPLAT (proprietary particle renderer), proprietary color processing libraries

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