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r/pcmasterrace



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r/pcmasterrace • 3 yr. ago
trulsern99



RGB vs YCbCr444

Question

I am gaming on my TV with my PC. What color option is the best to use out of RGB vs YCbCr444 vs YCbCr422?



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3



3



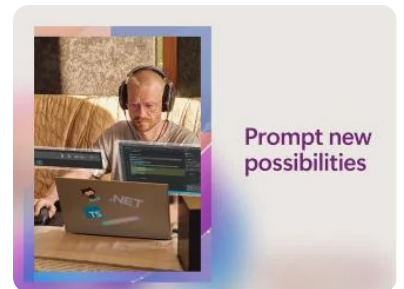
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dowarischeinerlei • 3y ago • Edited 3y ago

For monitors, always use full RGB (0-255).

For TVs, use YCbCr 4:4:4 (preferably). From there, to YCbCr 4:2:2 and to YCbCr 4:2:0 the amount of chroma subsampling increases, while the bandwidth required decreases. With that, also the quality degrades, as more subpixel color values are discarded/approximated.

YCbCr 4:4:4 has the full subpixel color values as RGB does, colors are just encoded differently. But be aware, that YCbCr will mostly limit your dynamic range to TV/limited range (16-235). Your TV will then scale that limited range back to full-range (0-255, if capable). Because of that, some banding can occur, as some values are lost on conversion.



4



Puttenoar • 3y ago

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Question about chroma subsampling 4:4:4 4:2:2 4:2:0

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5090 supply and demand

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unable to change pixel format

6 upvotes · 10 comments



r/mac • 3 yr. ago

External Dell Monitor defaults to YPbPr Color Format

3 upvotes · 14 comments



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8-bit at 4:4:4 vs. 12-bit at 4:2:2?



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2 upvotes · 6 comments



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Output color to nvidea or use default color settings?

7 upvotes · 24 comments



r/htpc • 4 yr. ago

RGB 8bpc VS YCbCr 444/422 10 bpc

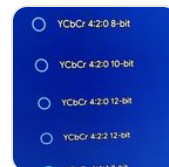
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Which Color Format is Best?

11 upvotes · 18 comments



r/editors • 4 yr. ago

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Unsure which color space to use

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5 comments



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