

Get Started With Display P3

Display P3 Imagery in Your App

Session 821

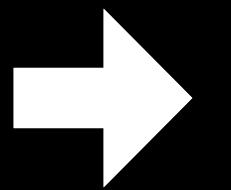
Oscar Waldén, Apple/Designer

Color Management

Color Management



Original Asset

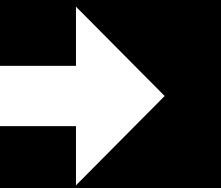


Customers' Device

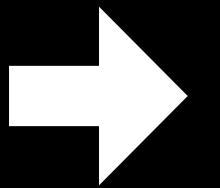
Color Management



Original Asset



Color Management
on macOS & iOS



Customers' Device

What is Display P3?

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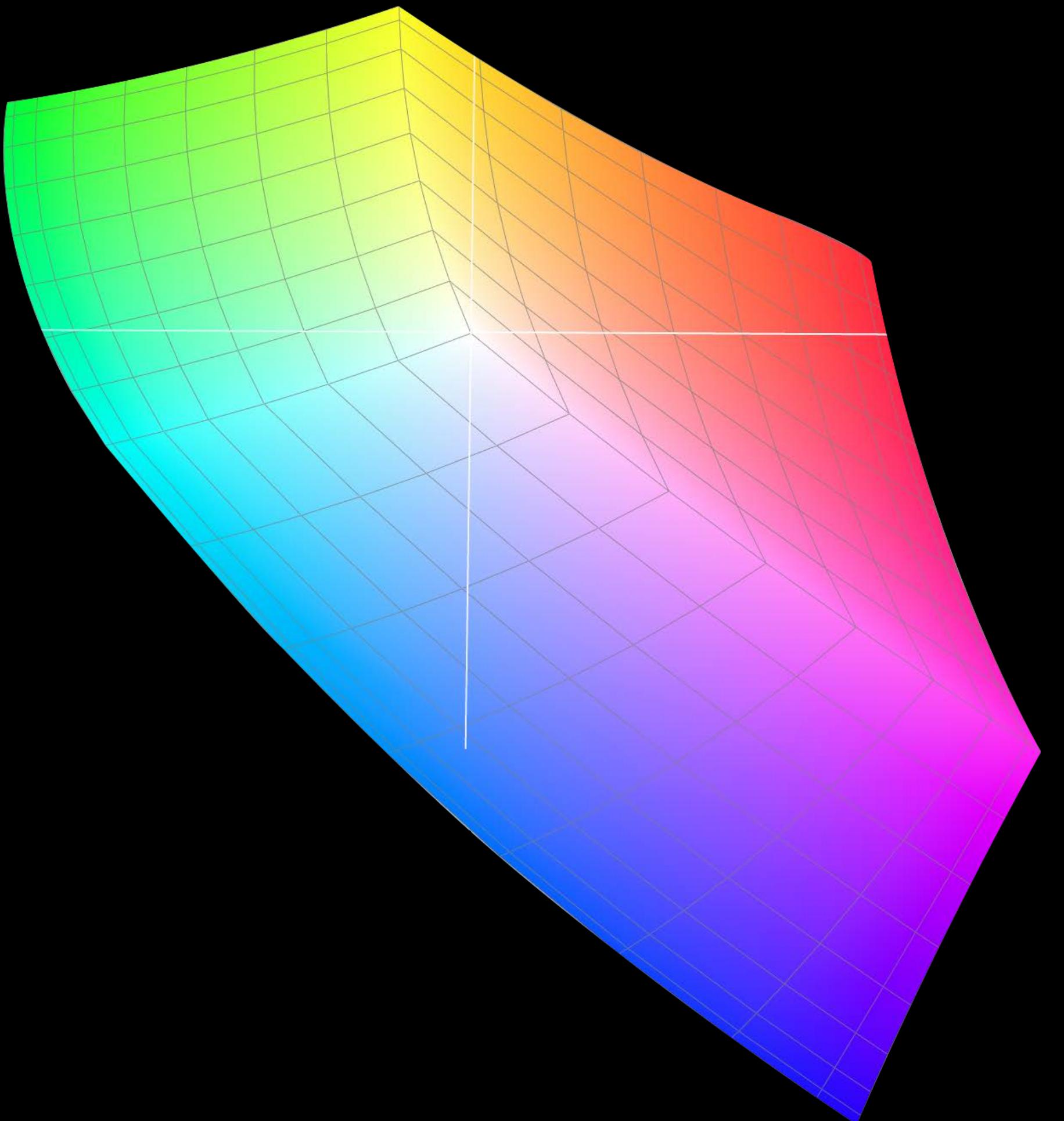
Color space within the RGB color model

25% larger than sRGB

A wide gamut color space

Color depth - 16 bits/channel

Why Display P3?



What is Display P3?

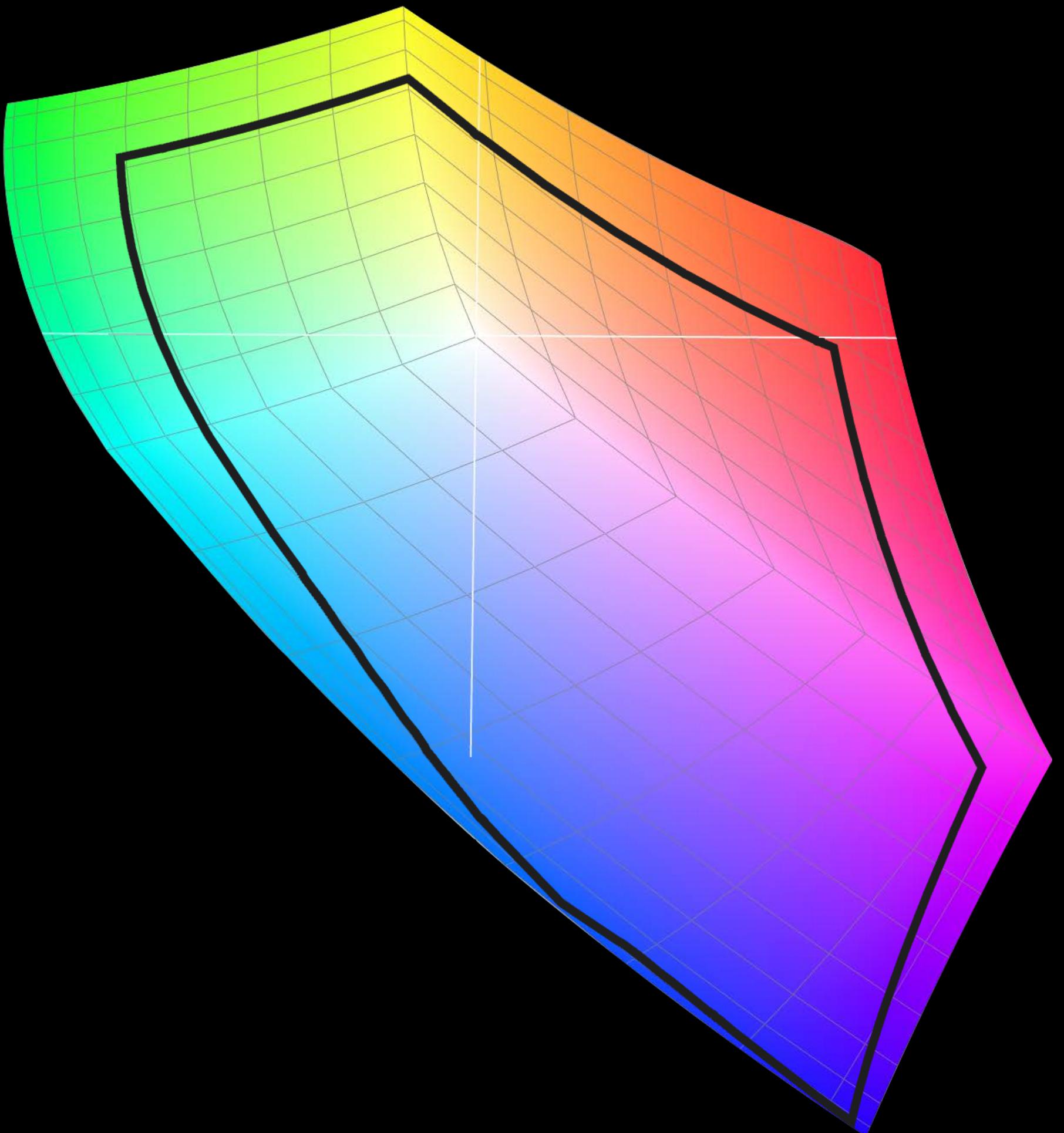
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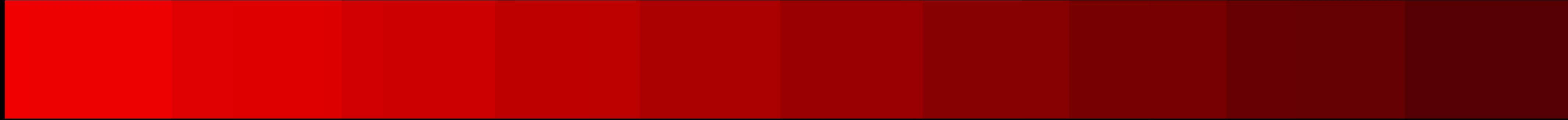
Why Display P3?

Color Depth - Comparison



sRGB 8 Bits/Channel

Color Depth - Comparison

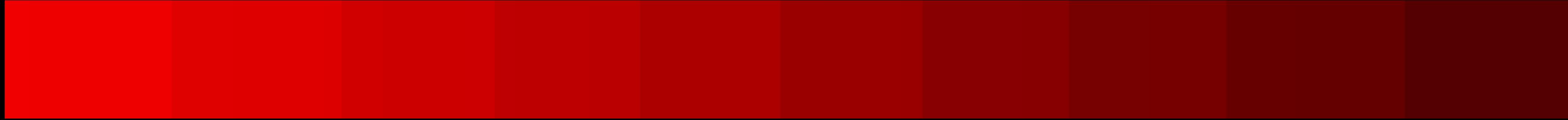


sRGB 8 Bits/Channel



sRGB 8 Bits/Channel with dithering

Color Depth - Comparison



sRGB 8 Bits/Channel



sRGB 8 Bits/Channel with dithering



Display P3 16 Bits/Channel

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Why Display P3?

sRGB Projection System

We Need to Talk..

Who Can See Display P3 Images?









Wide gamut equipment

Display P3 Example









sRGB

Display P3

Display P3 Workflow

Display P3 Workflow in Photoshop

New Asset

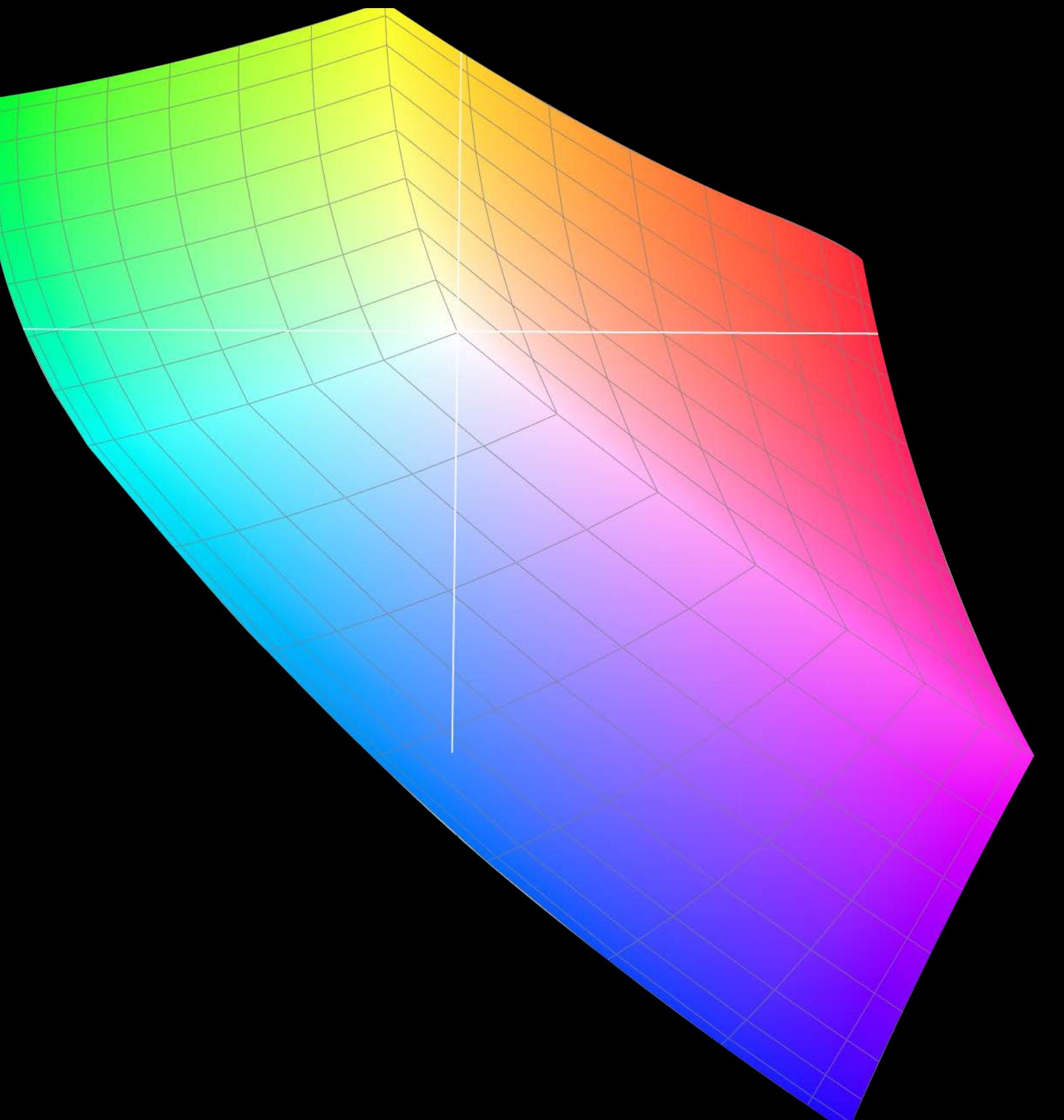
Display P3 color profile

Color depth

Save As

RAW

Asset source



Display P3 Workflow in Photoshop

New Asset

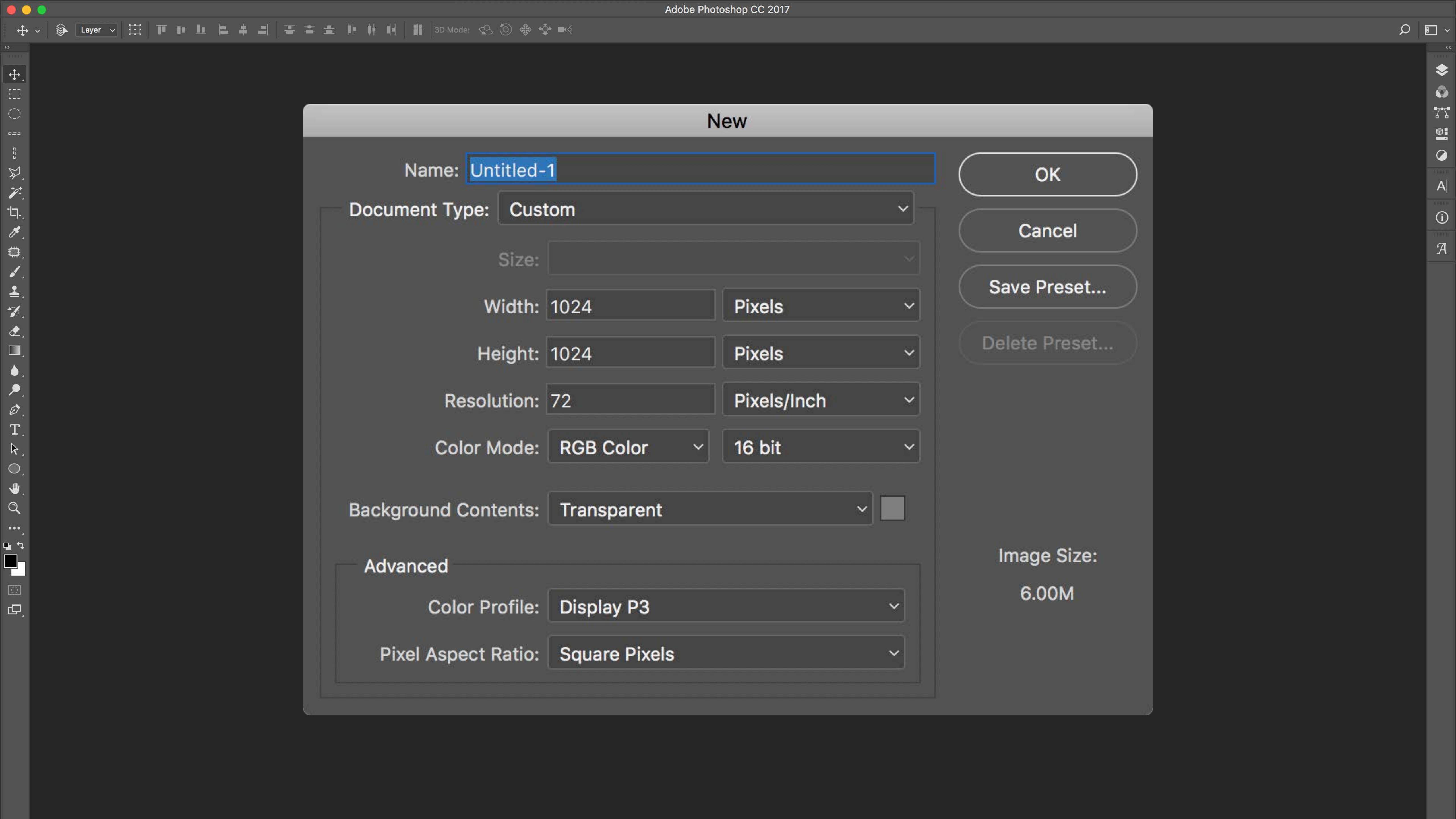
Display P3 color profile

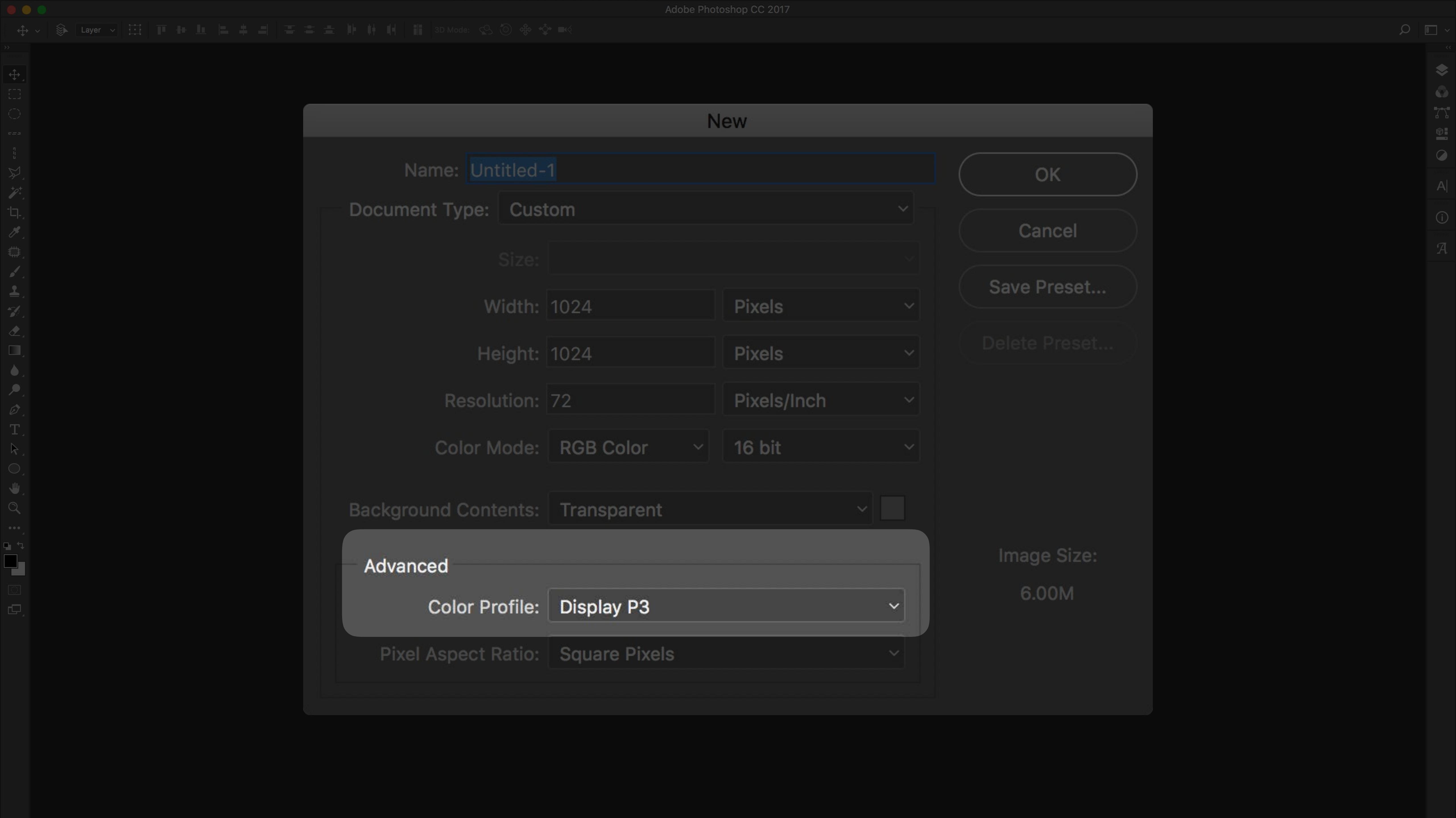
Color depth

Save As

RAW

Asset source





Display P3 Workflow in Photoshop

New Asset

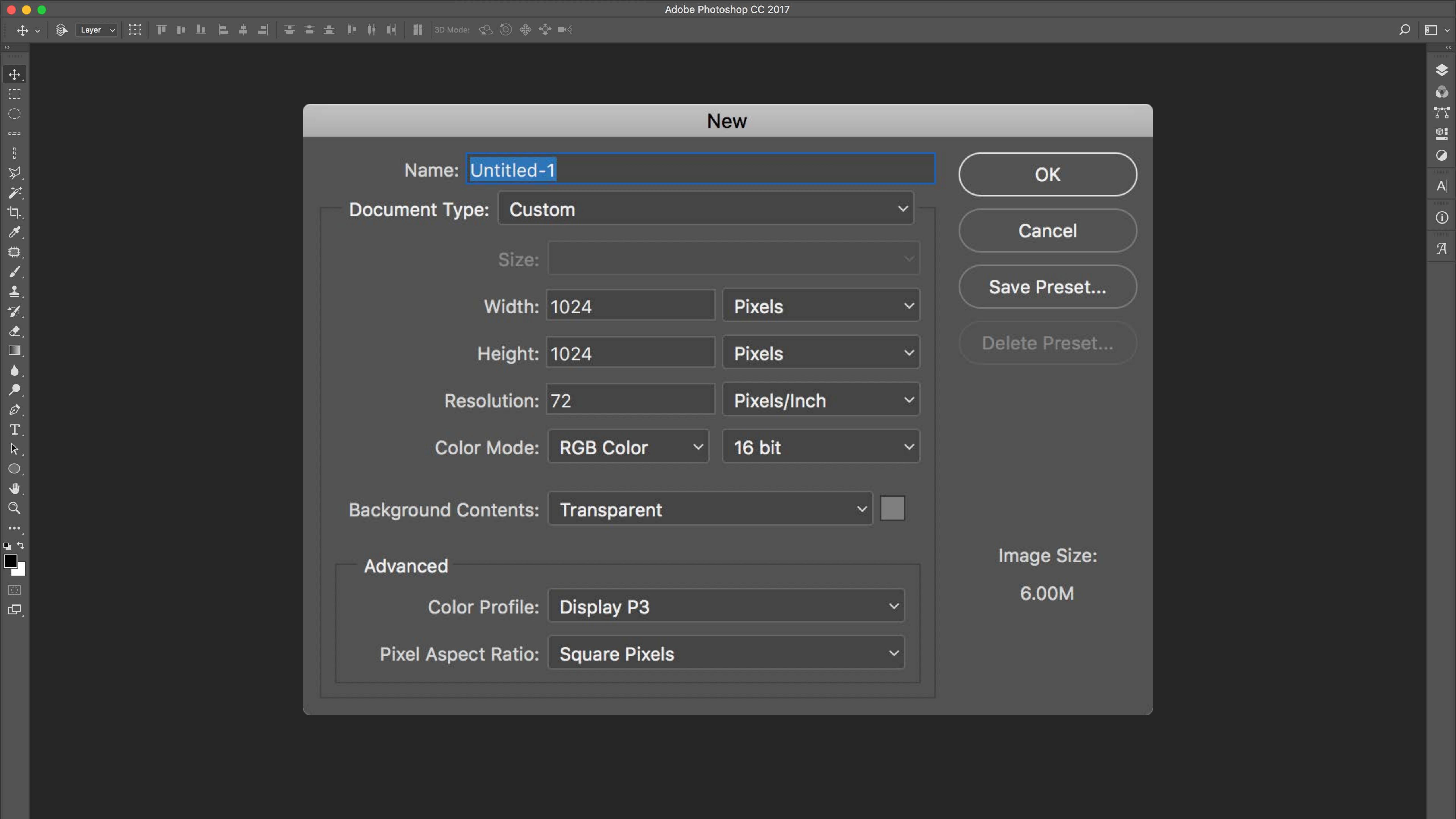
Display P3 color profile

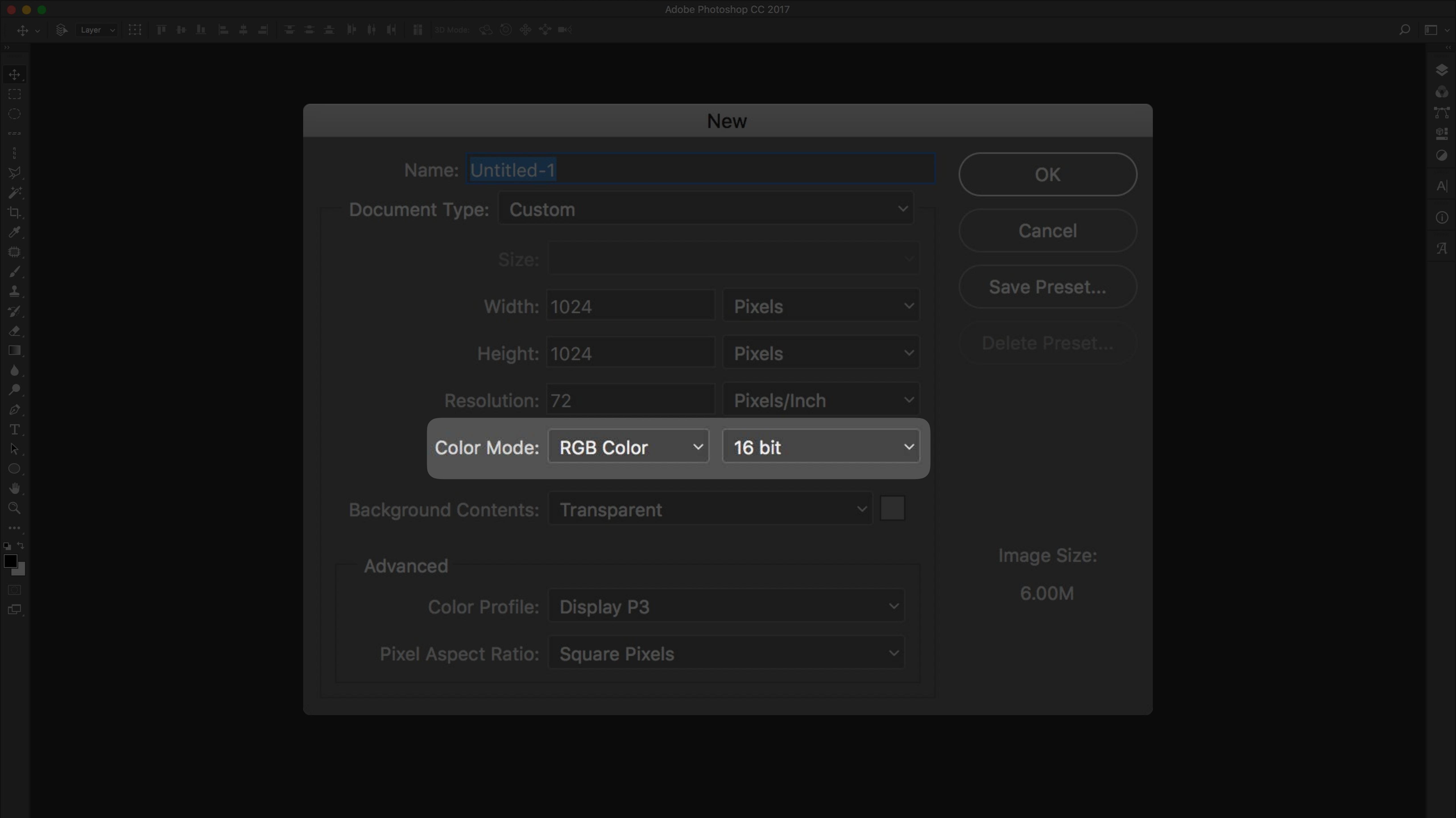
Color depth

Save As

RAW

Asset source





Display P3 Workflow in Photoshop

New Asset

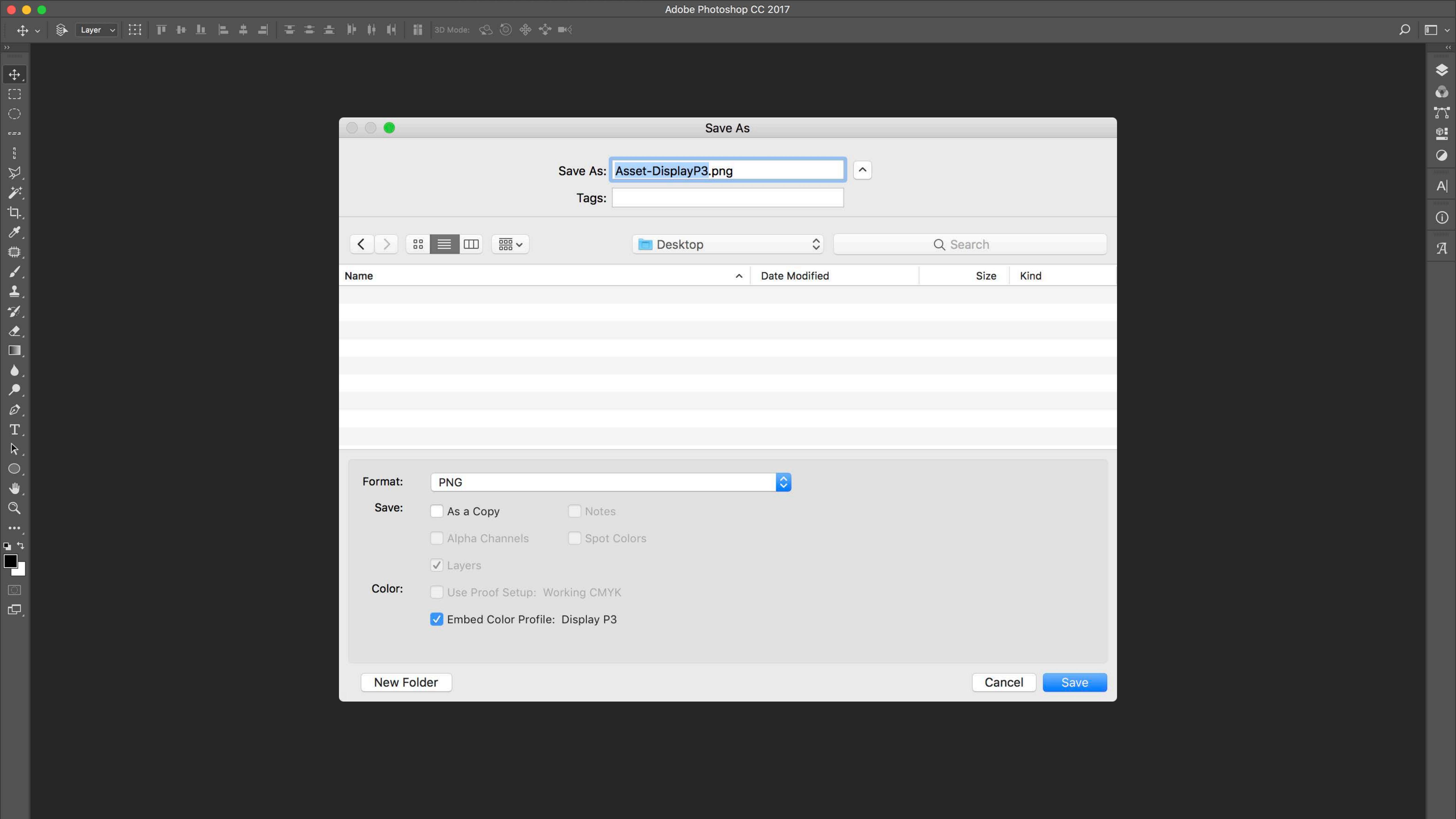
Display P3 color profile

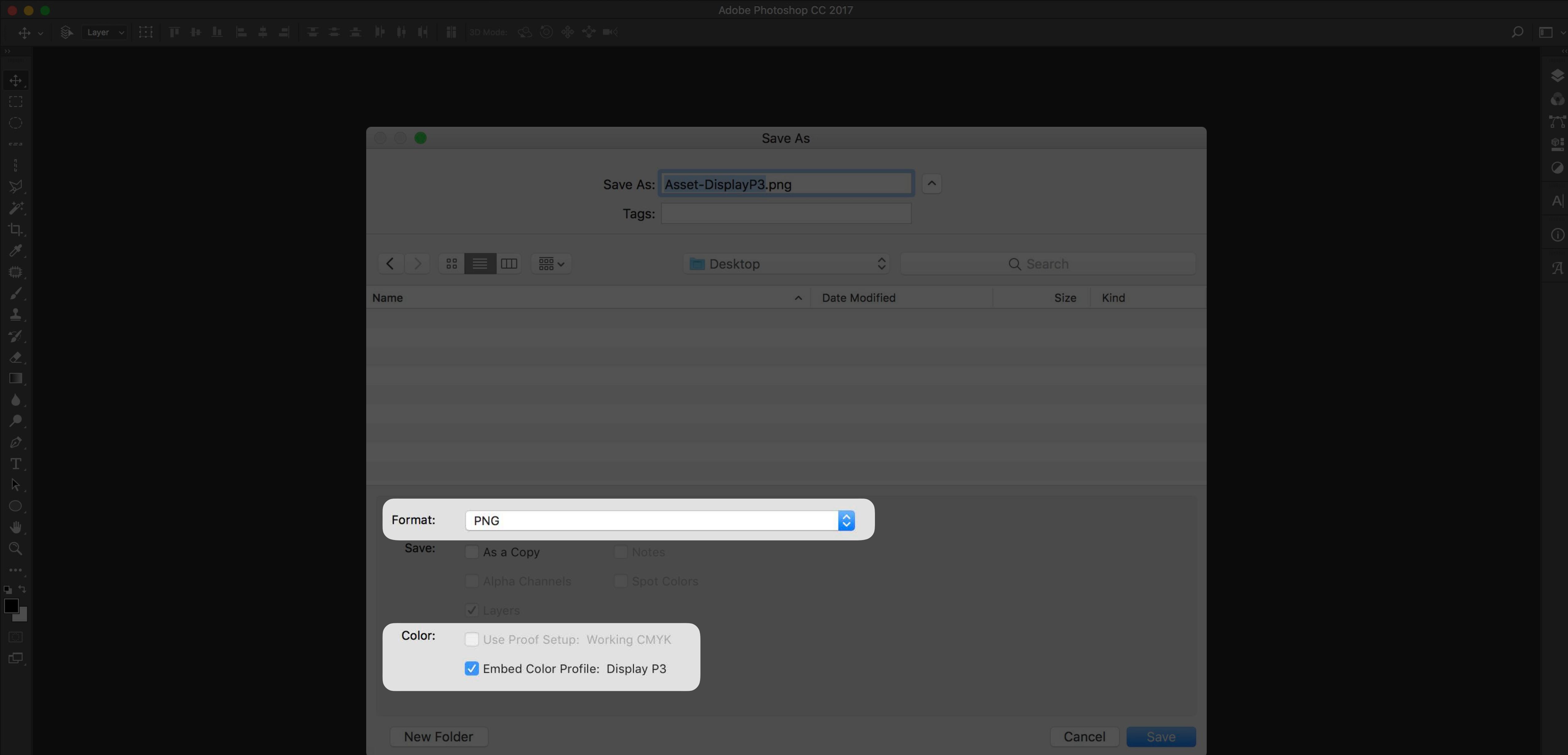
Color depth

Save As

RAW

Asset source





Display P3 Workflow in Photoshop

New Asset

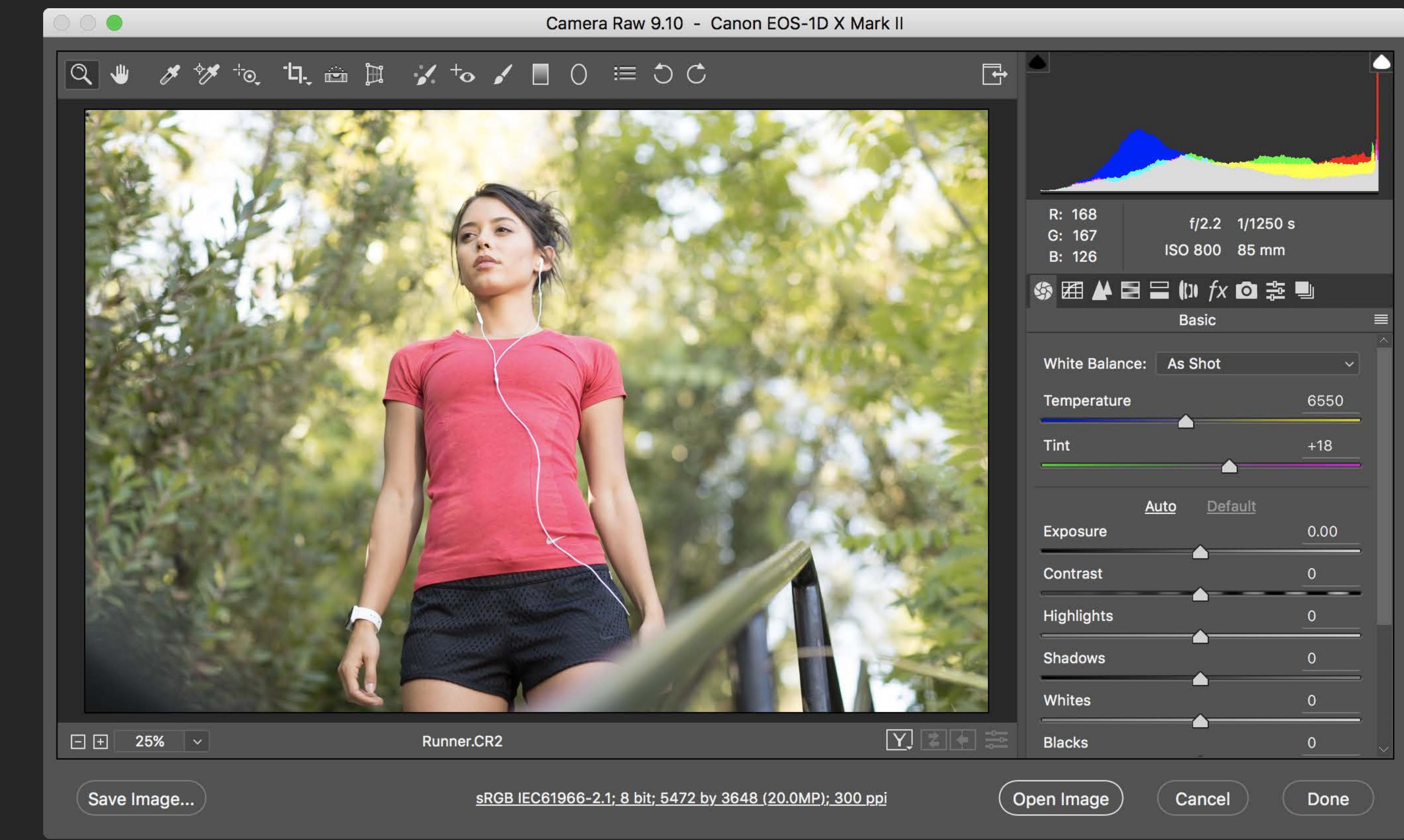
Display P3 color profile

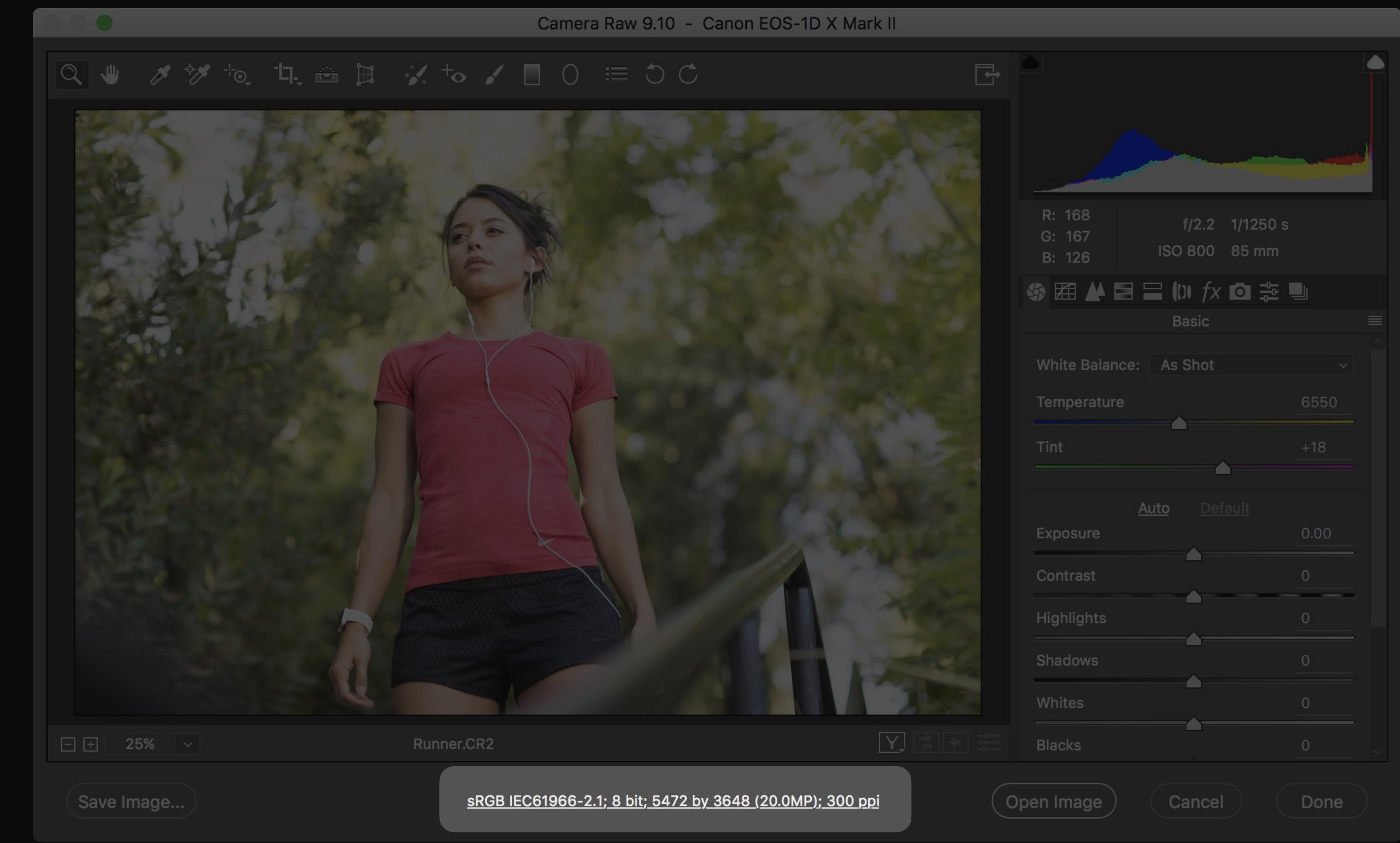
Color depth

Save As

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Display P3 Workflow in Photoshop

New Asset

Display P3 color profile

Color depth

Save As

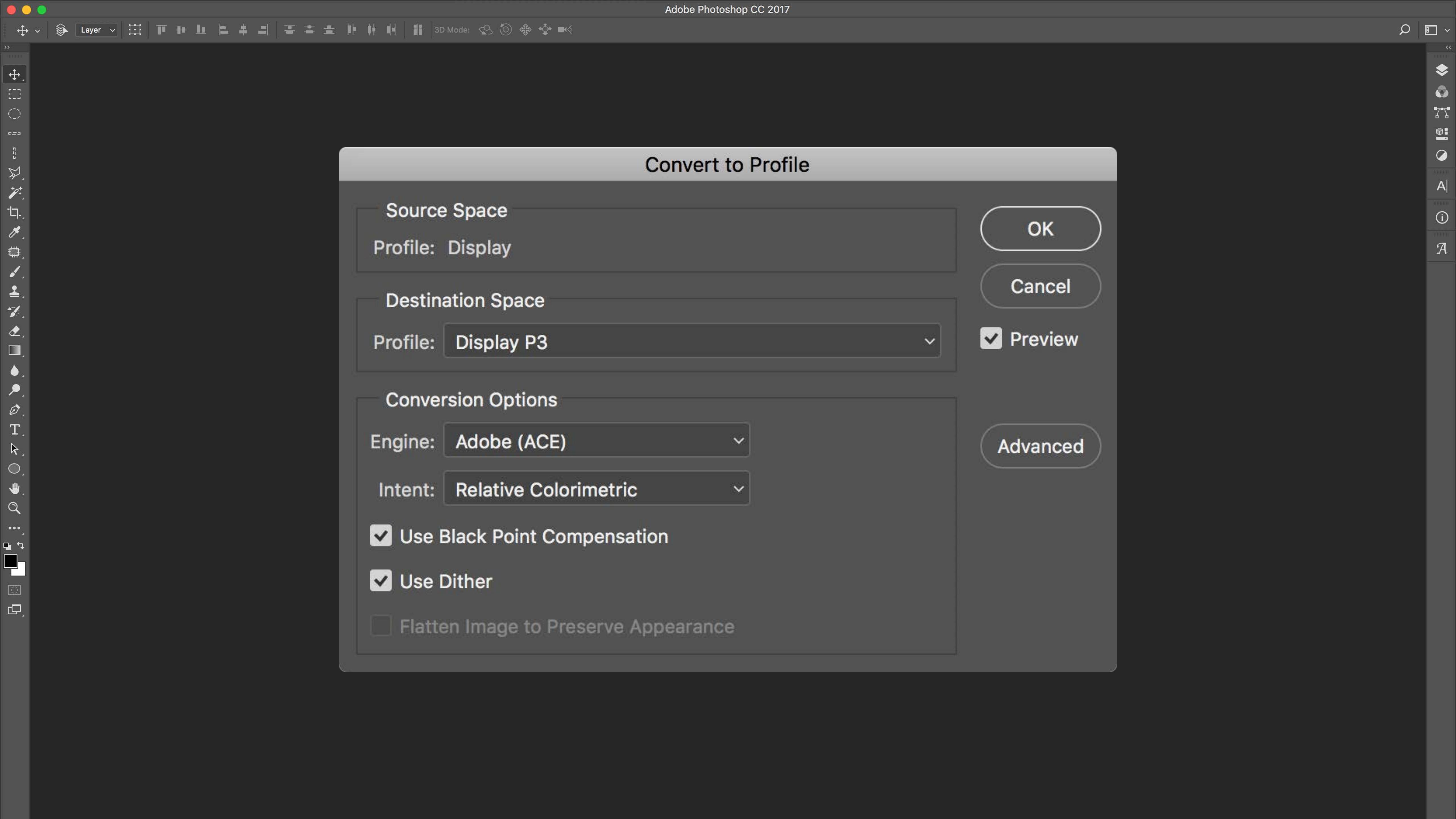
RAW

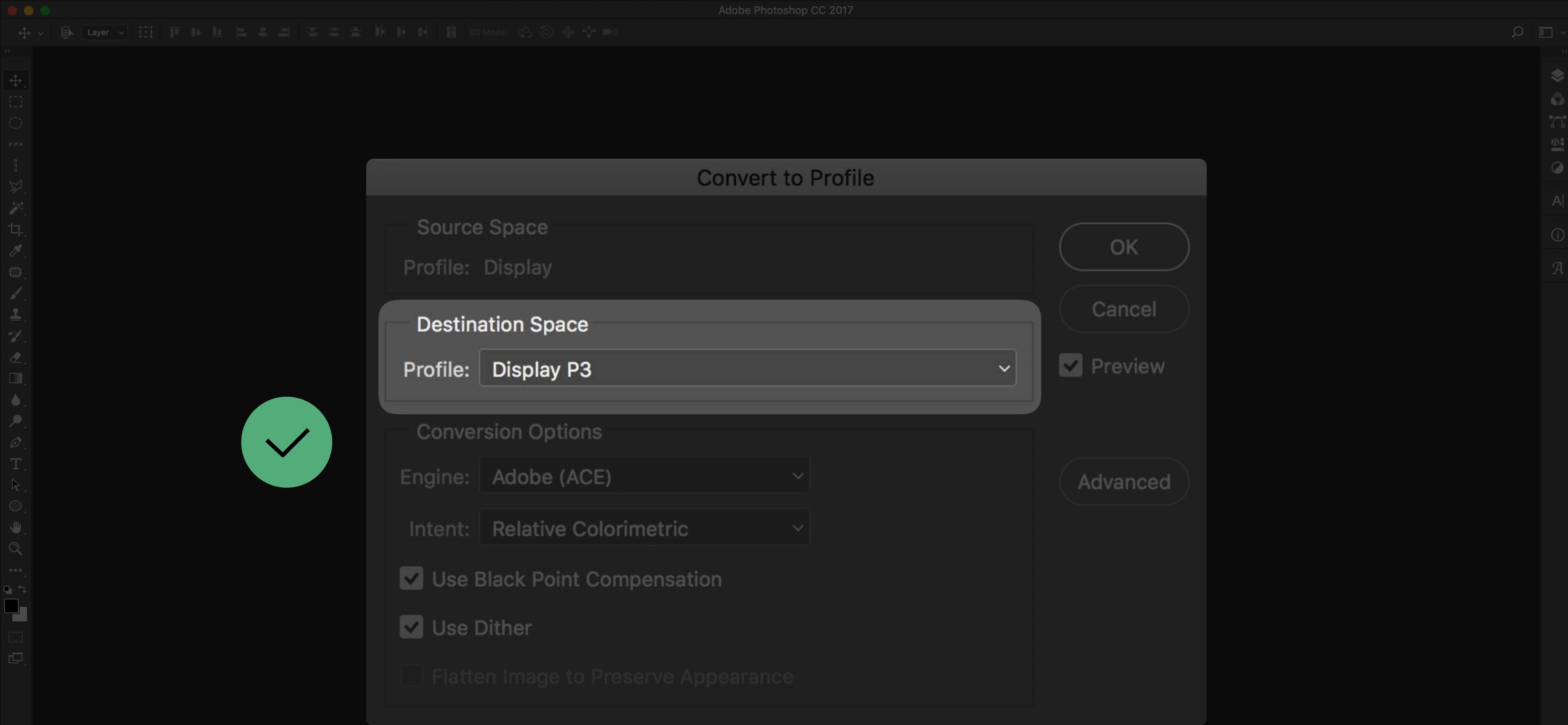
Asset source

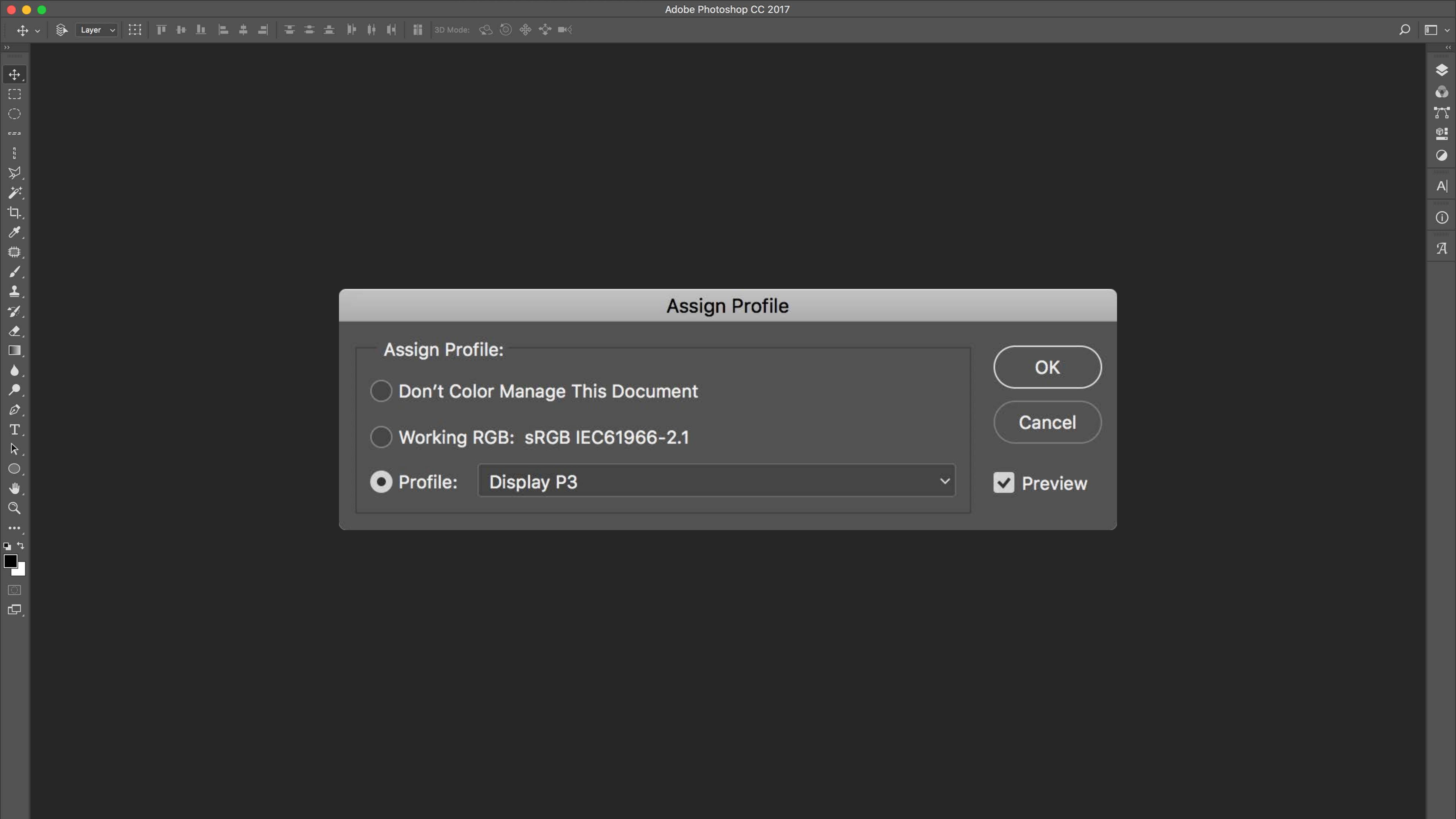
Display P3 Workflow

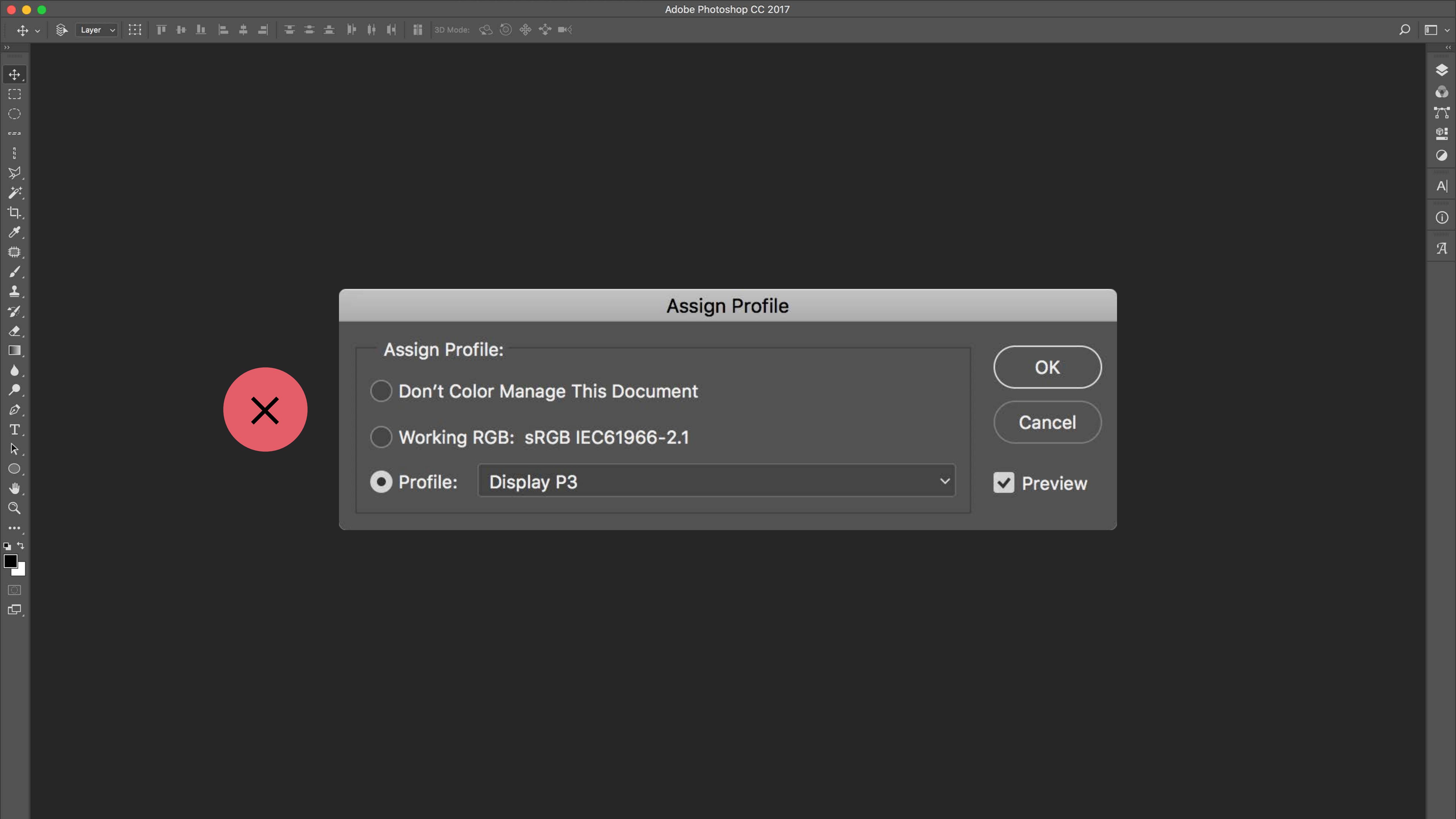
Existing Assets

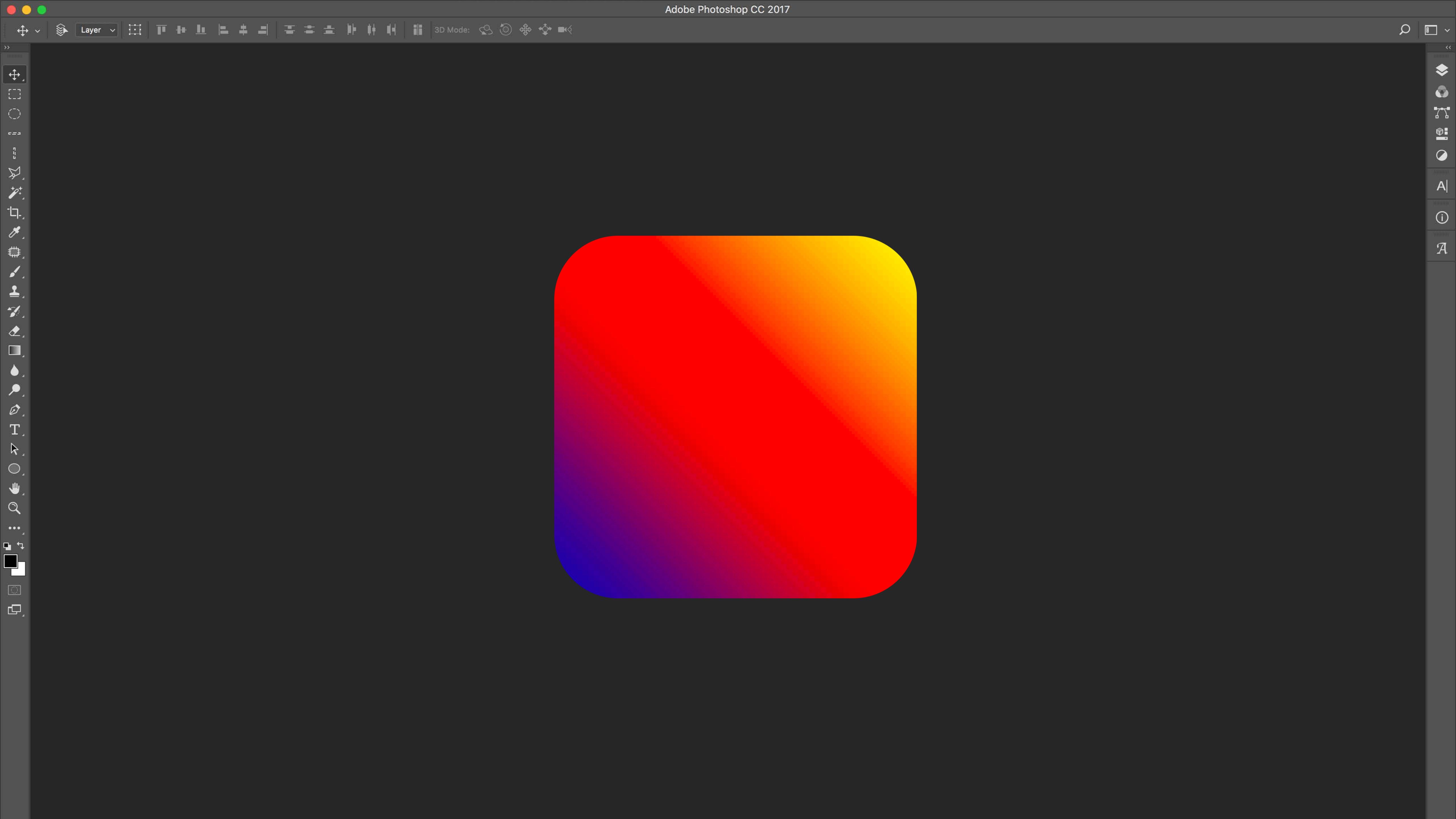
Convert to Display P3 color profile

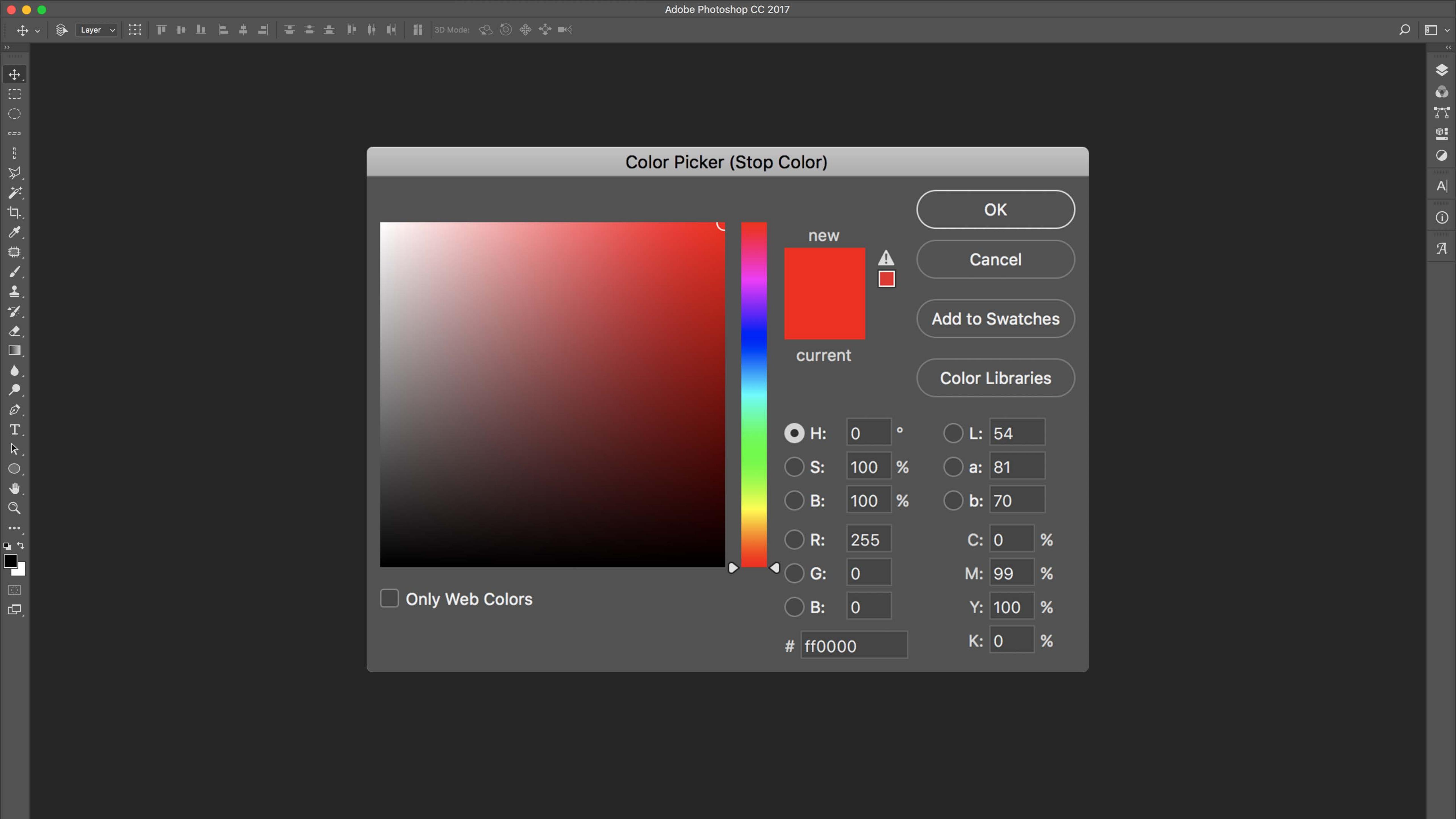


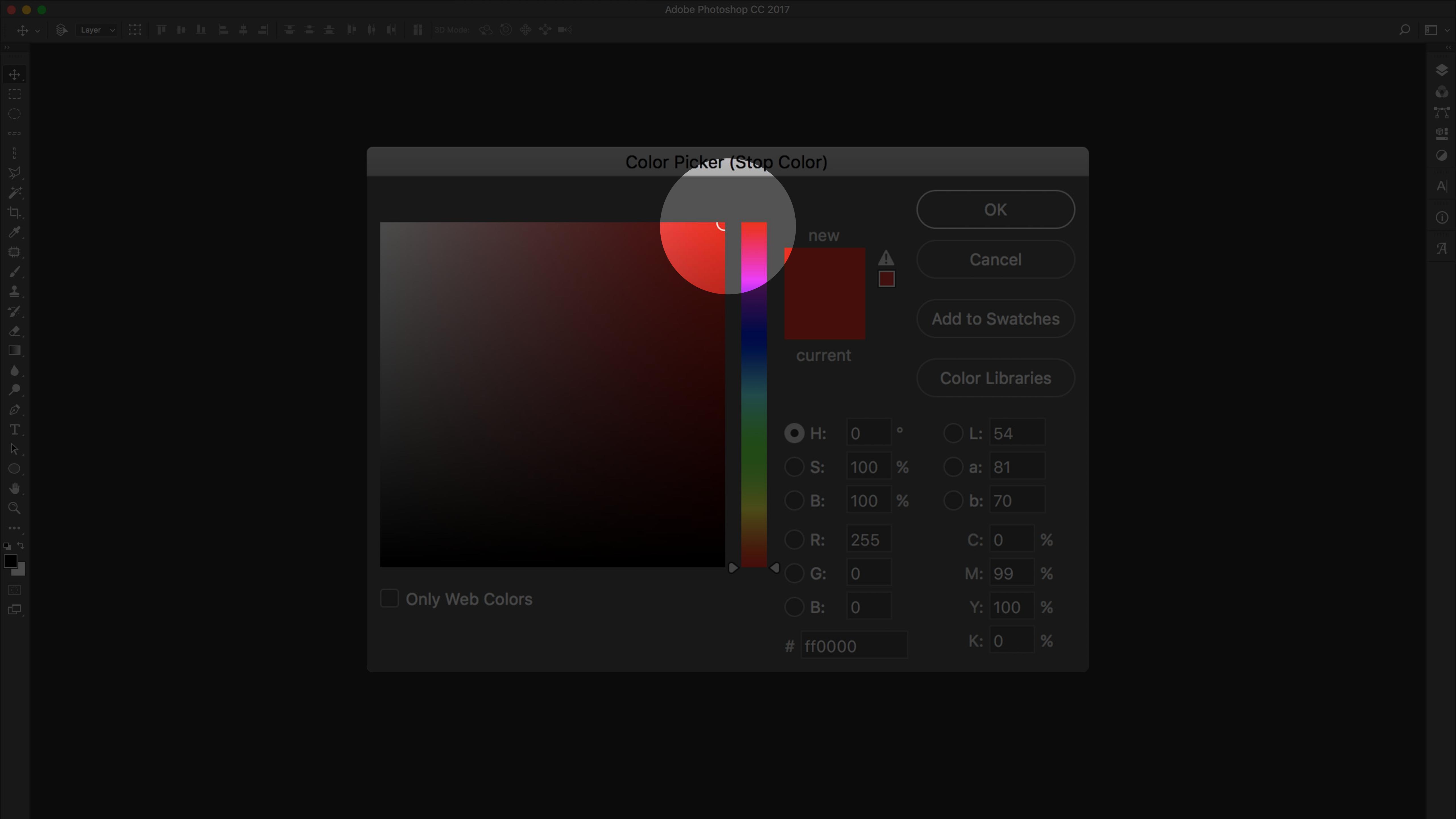


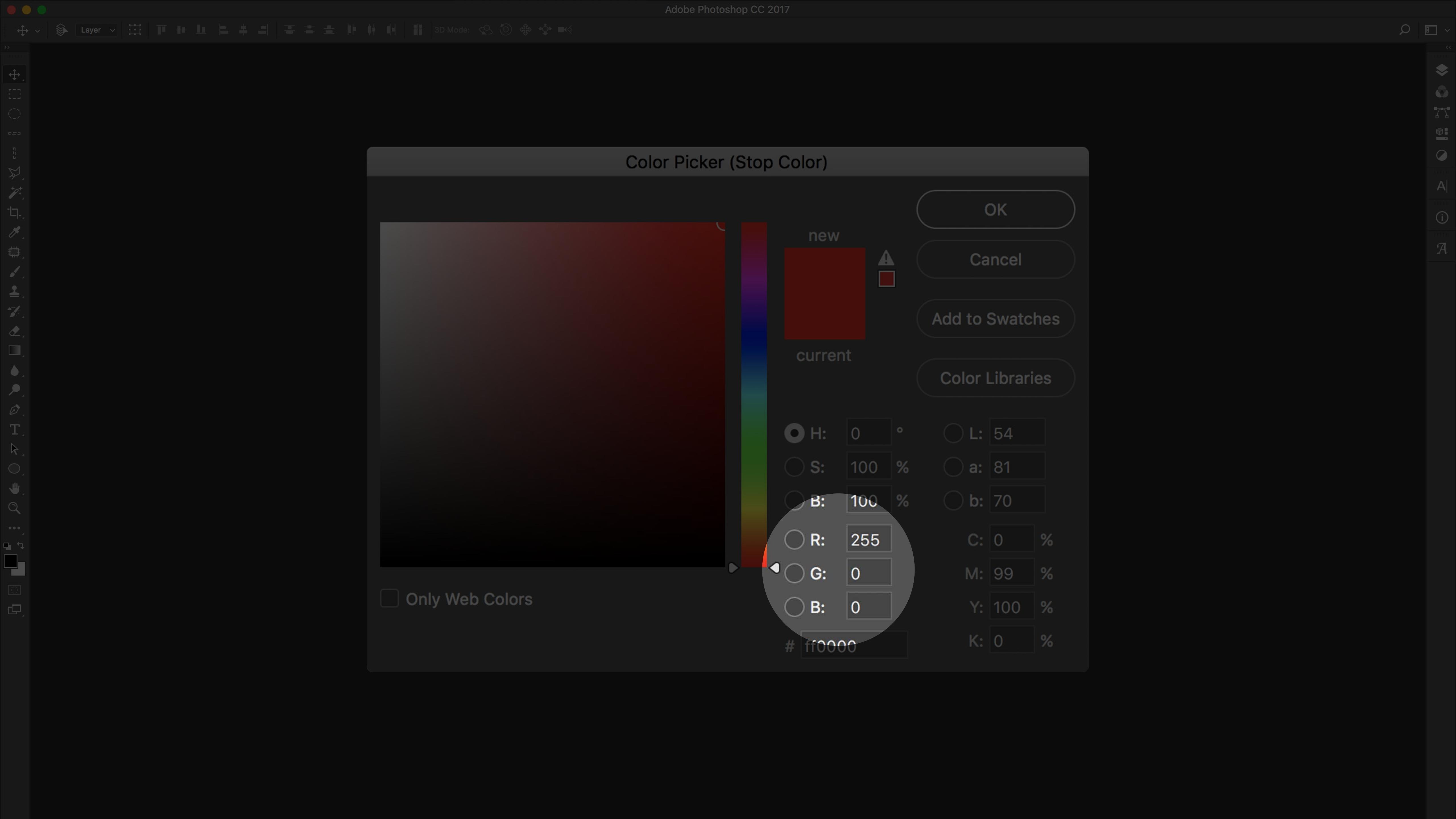


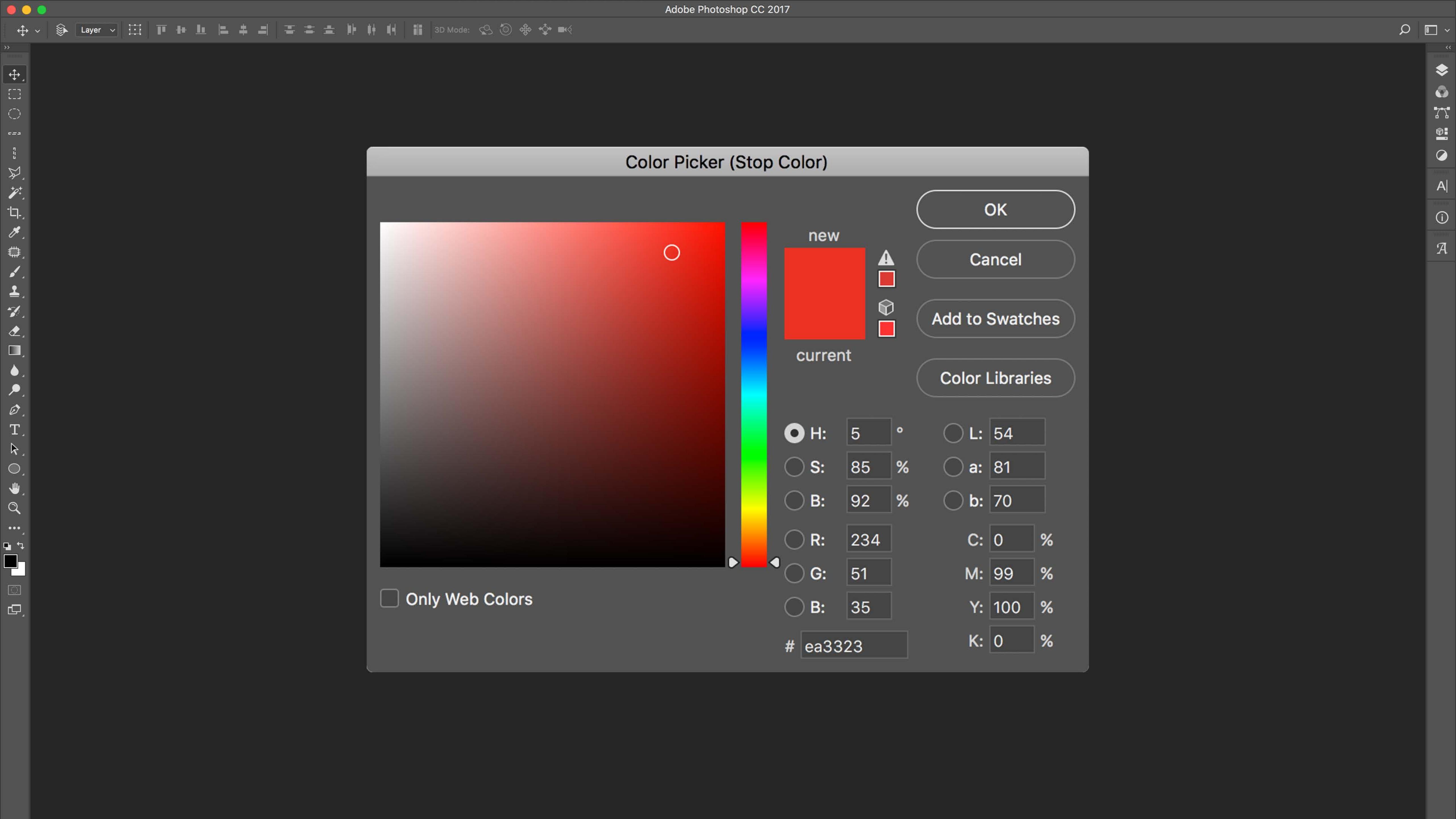


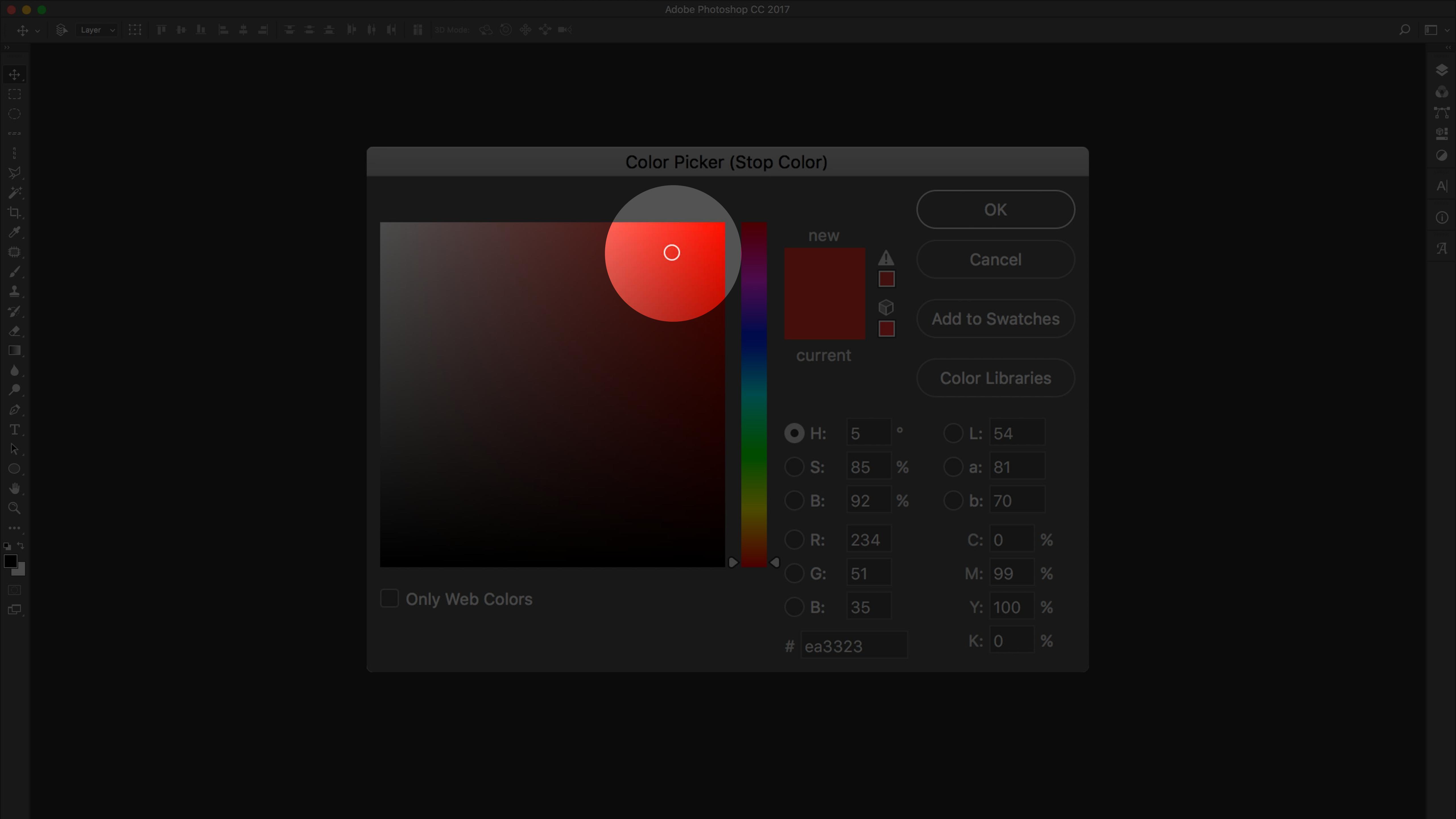


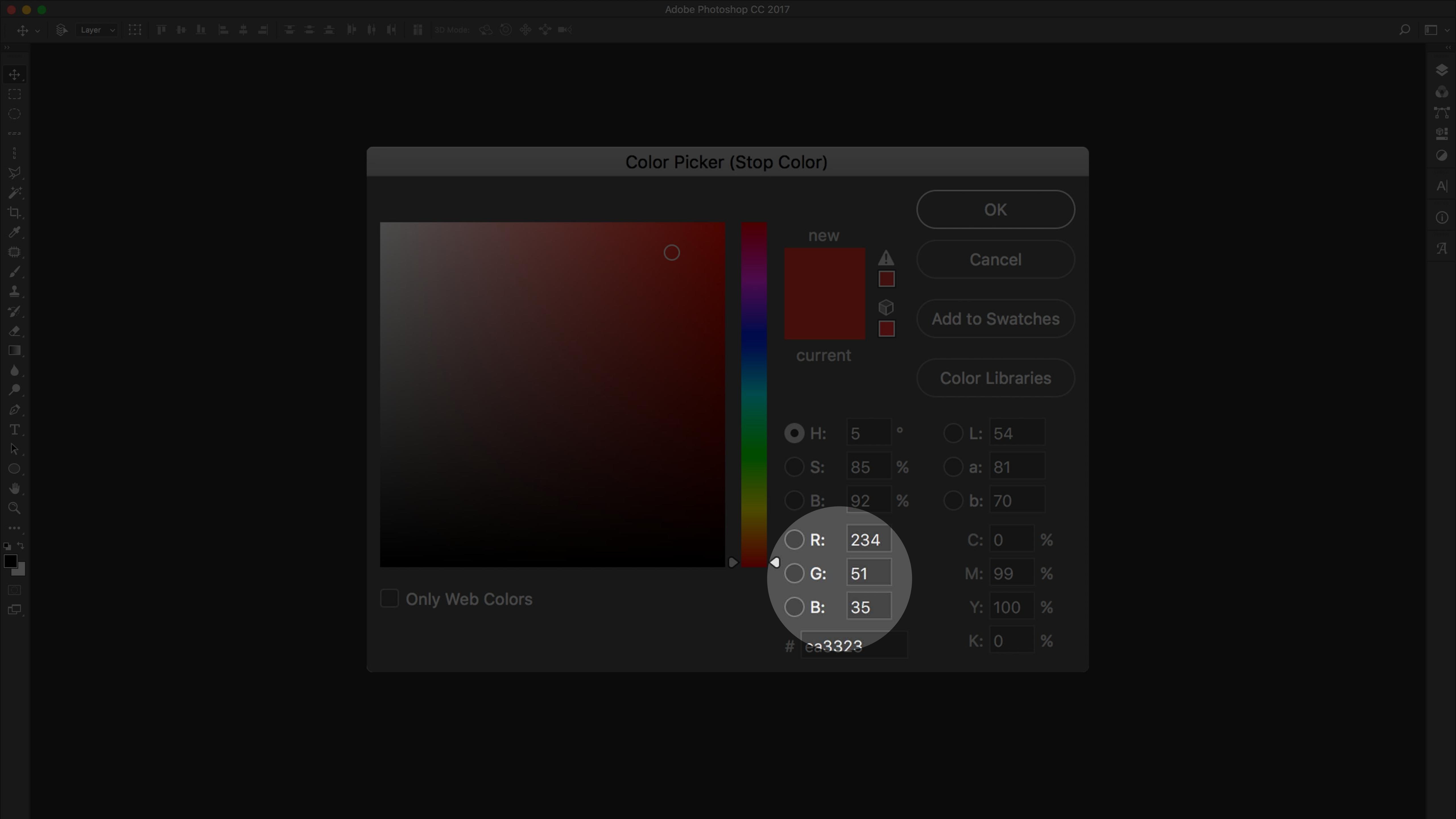












Should You Convert To Display P3?

WILDFULNESS





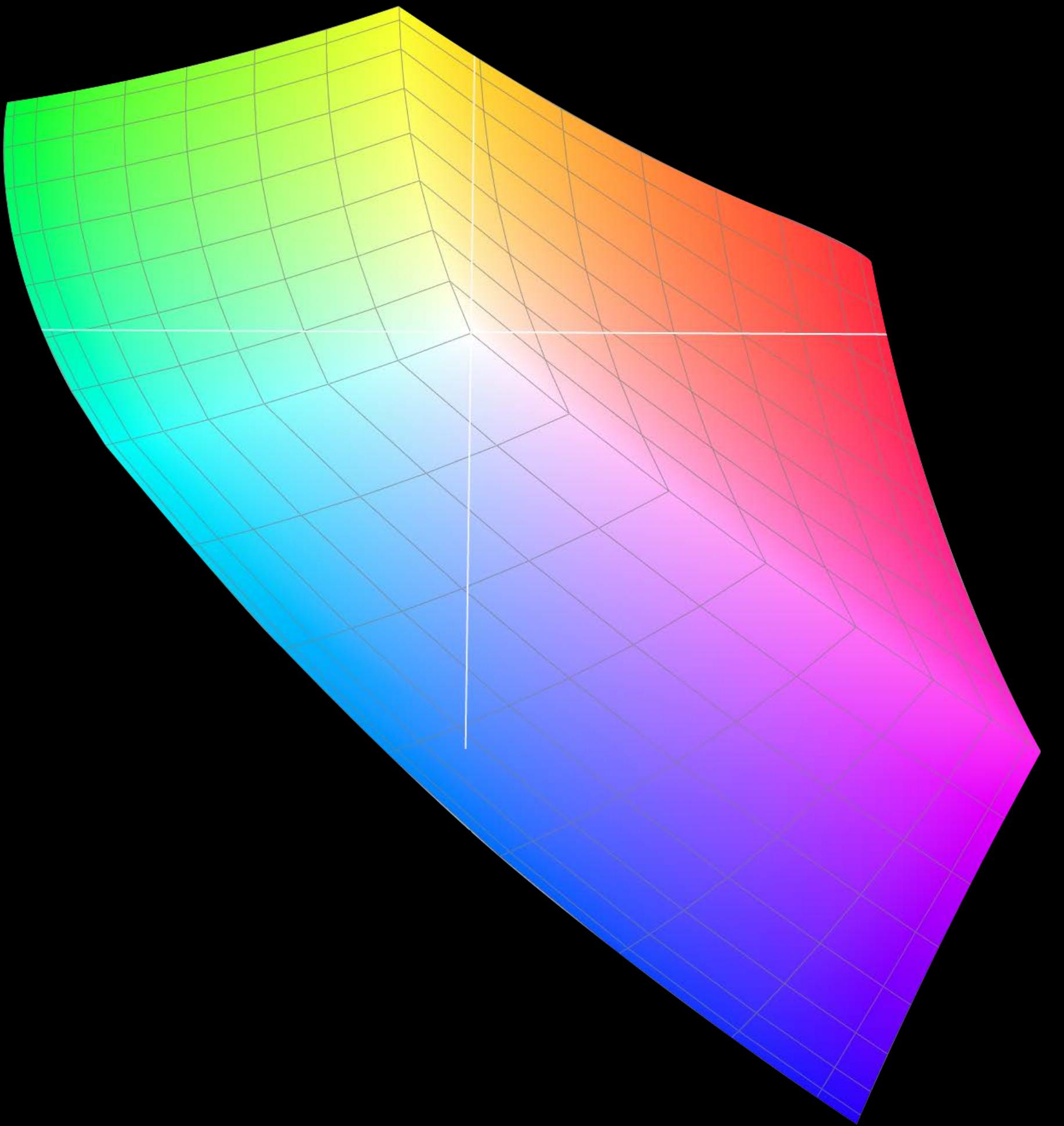




In Conclusion

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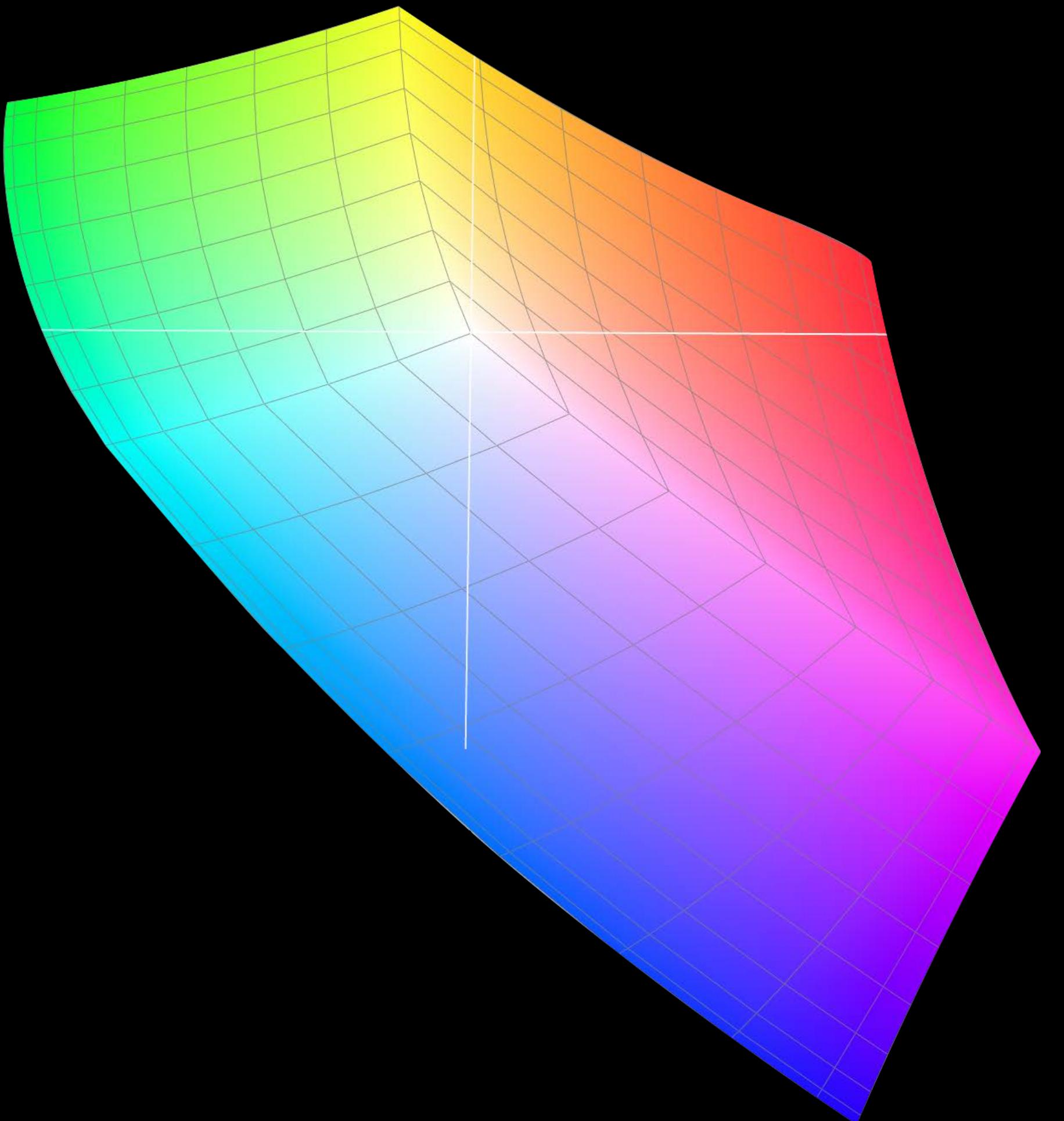
Display P3 color space and profile



In Conclusion

Display P3 color space and profile

25% larger color space vs. sRGB

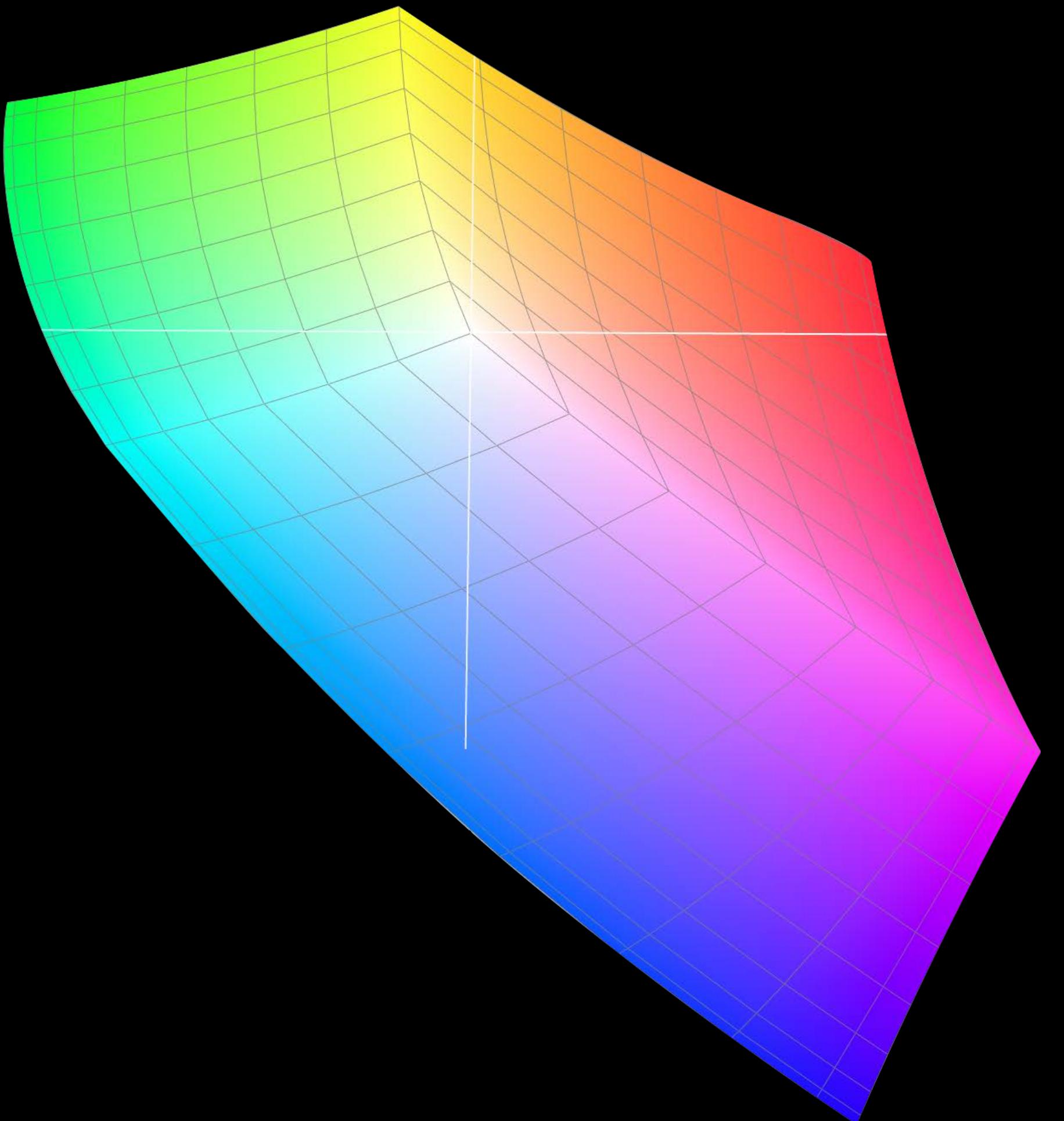


In Conclusion

Display P3 color space and profile

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In users' hands today



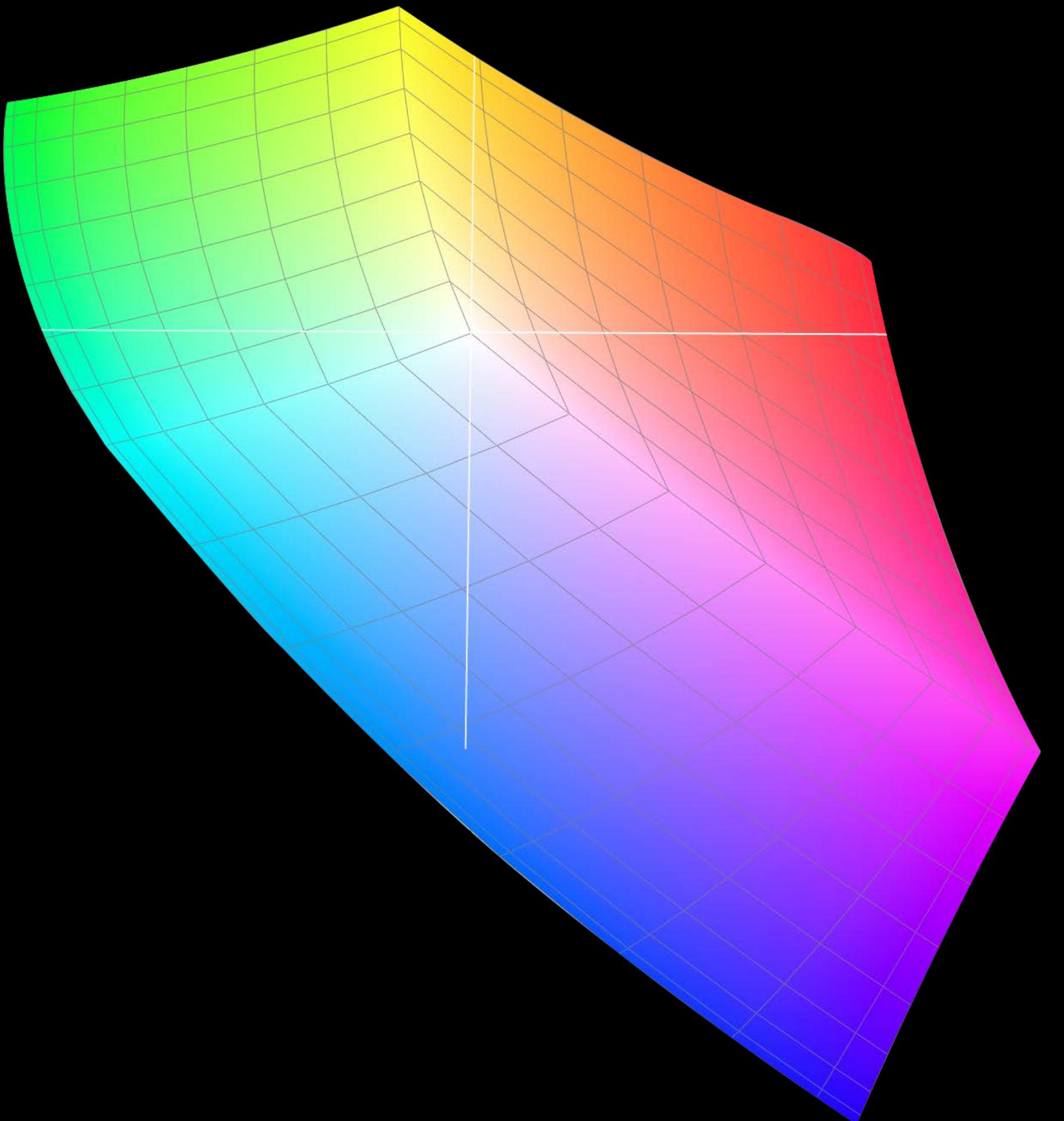
In Conclusion

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In users' hands today

Display P3 workflow



In Conclusion

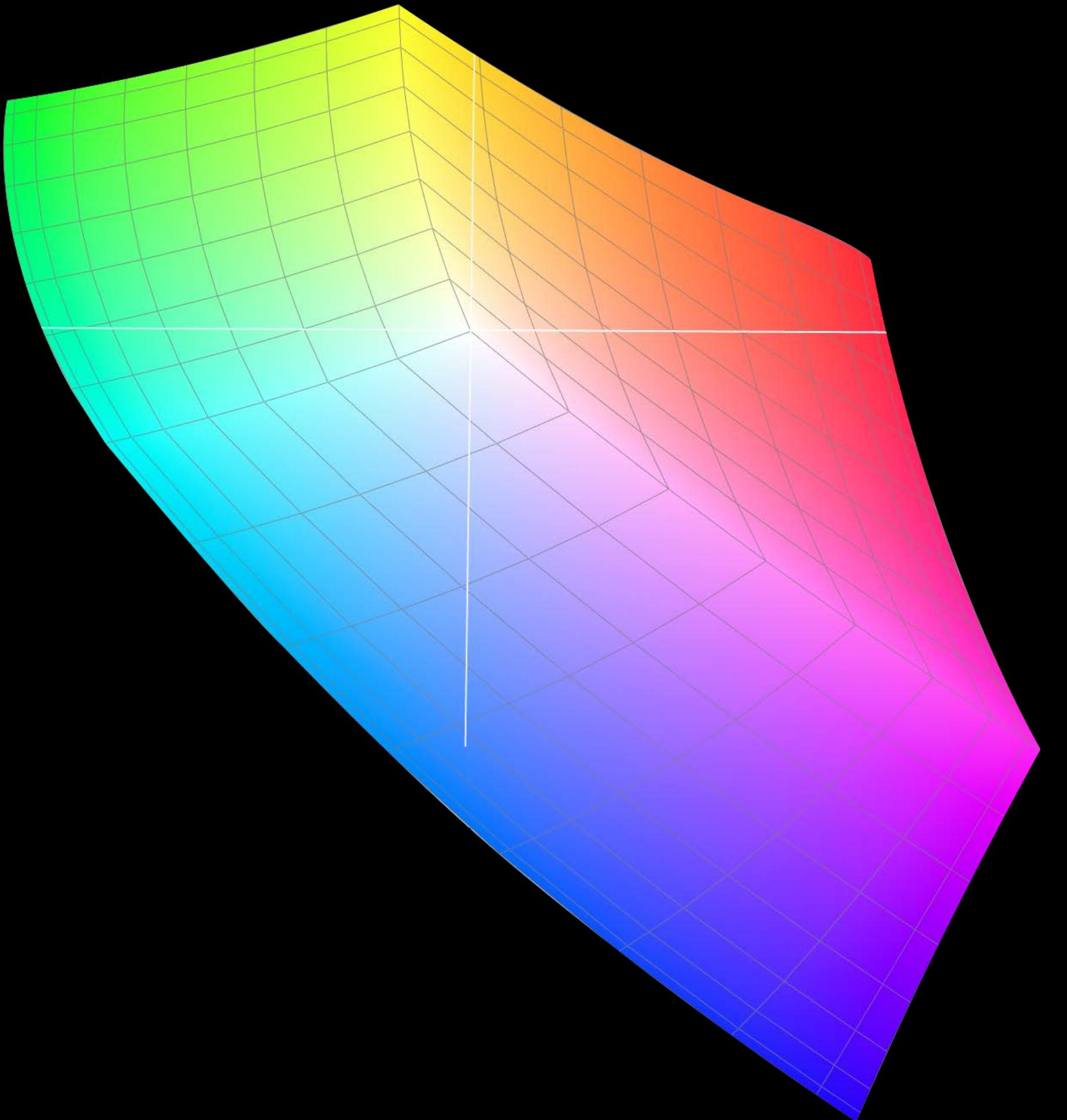
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Display P3 workflow

Thoughtful usage



WWDC17