

Converting Colors

XYZ(16.8116, 16.2661, 40.7068)

Have a look what the booklet for
XYZ(16.8116, 16.2661, 40.7068)
contains.

XYZ(16.7814, 16.2404, 40.7783)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(16.7814, 16.2404,
40.7783)**

Conversions

Conversions Part 1

Format	Color
Hex	556FAB
RGB	85, 111, 171
RGB Percent	33%, 44%, 67%
CMY	0.6667, 0.5647, 0.3294
CMYK	0.50, 0.35, 0.00, 0.33
HSL	222°, 34%, 50%
HSV	222°, 50%, 67%
XYZ	16.7814, 16.2404, 40.7783
YIQ	110.0660, -34.7560, 13.1480

Conversions

Conversions Part 2

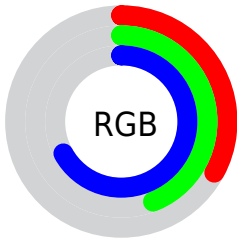
Format	Color
R _Y B	85, 105, 171
Decimal	5599147
CIE Lab	47.29, 7.71, -35.04
CIE LCh	47, 35.882, 282.401
Yxy	16.2404, 0.2274, 0.2201
Android (android.graphics.Color)	4283789227 (0xFF556FAB)
YUV	110.0660, 30.0405, -21.9829
Hunter-Lab	40.2994, 3.8068, -31.7850

Details

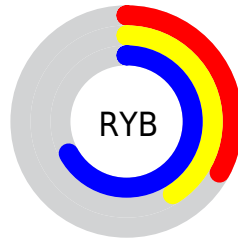
The XYZ color **16.7814, 16.2404, 40.7783** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **28.5604, 29.5656, 12.7966**, and the grayscale version is **14.7641, 15.5330, 16.9154**.

A 20% lighter version of the original color is **37.4329, 36.8757, 77.8178**, and **5.5823, 5.2217, 17.8532** is the 20% darker color. If you saturate the color by 10%, you get **14.1965, 13.1029, 40.3093**, and if you desaturate by 10%, it is **19.9165, 19.9202, 41.3237**.

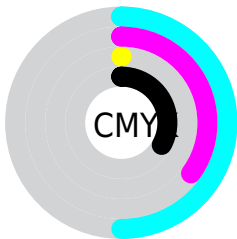
Distribution



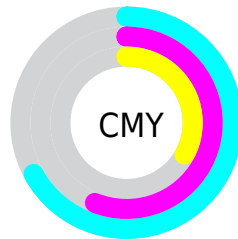
- Red (33%)
- Green (44%)
- Blue (67%)



- Red (33%)
- Yellow (41%)
- Blue (67%)



- Cyan (50%)
- Magenta (35%)
- Yellow (0%)
- Black (33%)



- Cyan (67%)
- Magenta (56%)
- Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.7814, 16.2404, 40.7783 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 16.7814, 16.2404, 40.7783 by changing the saturation by 10% instead.

■ 16.7814, 16.2404,
40.7783

■ 16.7814, 16.2404,
40.7783

227.0904,
230.7561, 365.0423

■ 10.1731, 9.6944,
27.8275

■ 37.4961, 37.0150,
77.5972

■ 5.5770, 5.1968,
17.9578

■ 52.3333, 52.0125,
102.3025

■ 2.6278, 2.3632,
10.7505

■ 70.6441, 70.5959,
131.7629

■ 0.9602, 0.8069,
5.7873

■ 92.7939, 93.1497,
166.3971

■ 0.0000, 0.0000,
2.6495

119.1481,
120.0582, 206.6236

■ 0.0000, 0.0000,
0.9178

150.0720,

■ 0.0000, 0.0000,

151.7058, 252.8610

0.0000

185.9310,
188.4770, 305.5277

■ 16.7814, 16.2404,
40.7783

■ 16.7814, 16.2404,
40.7783

■ 14.1965, 13.1029,
40.3093

■ 19.9165, 19.9202,
41.3237

■ 12.1257, 10.4782,
39.9118

■ 23.6313, 24.1663,
41.9474

■ 10.5310, 8.3360,
39.5824

■ 27.9551, 29.0032,
42.6532

■ 9.3679, 6.6419,
39.3167

■ 32.9147, 34.4533,
43.4437

■ 8.5652, 5.3692,
39.1133

■ 38.5352, 40.5380,
44.3220

■ 44.8403, 47.2774,
45.2905

■ 51.8527, 54.6907,
46.3518

■ 59.5938, 62.7966,
47.5084

■ 68.0842, 71.6126,
48.7626

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



13.6666, 16.2404, 40.0677



16.7814, 16.2404, 40.7783



19.9184, 16.2404, 33.9461

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



16.7814, 16.2404, 40.7783



20.3850, 16.2404, 8.3355



10.3275, 16.2404, 12.9156

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



16.7814, 16.2404, 40.7783



28.5604, 29.5656, 12.7966

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



11.6822, 16.2404, 7.6761



16.7814, 16.2404, 40.7783



17.3519, 16.2404, 5.7224

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



16.7814, 16.2404, 40.7783



22.1820, 16.2404, 14.1951



14.1645, 16.2404, 5.5316



10.2185, 16.2404, 21.7001

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



16.7814, 16.2404, 40.7783



21.4877, 16.2404, 27.0585



14.1645, 16.2404, 5.5316



10.6428, 16.2404, 10.7700

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



16.7820, 16.2410, 40.7787



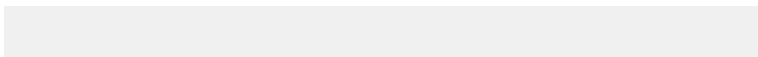
54.3841, 56.7081, 77.0813



23.3260, 33.0641, 31.4454



11.7277, 12.2057, 17.1255



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



16.7820, 16.2410, 40.7787



25.1073, 23.0723, 72.1320



15.9406, 12.1913, 40.0414



7.7690, 8.1373, 10.1139



6.4982, 4.1303, 29.4993



0.2295, 0.2123, 0.8369

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



22.9128, 16.3033, 16.9786



37.5902, 24.1919, 23.4504



29.7655, 36.7738, 14.1244



8.1012, 8.0537, 8.8437



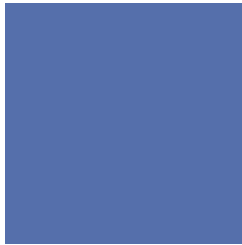
13.1437, 6.7200, 3.1360



0.3902, 0.1968, 0.2166

Previews

White Background



This preview shows how the XYZ color 16.7814, 16.2404, 40.7783 looks on a white background.

Color Contrast Check

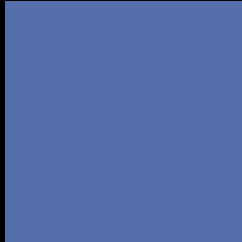
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 16.7814, 16.2404, 40.7783 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

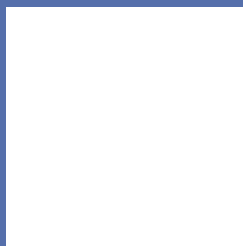
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 16.7814, 16.2404, 40.7783

Background



This preview shows how black text looks on a background with the XYZ color 16.7814, 16.2404, 40.7783.

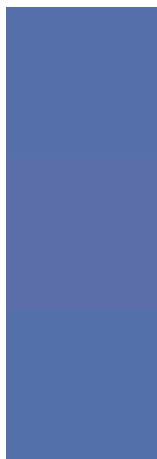


This preview shows how white text looks on a background with the XYZ color 16.7814, 16.2404,

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

16.7814, 16.2404, 40.7783

Protanopia

17.1460, 16.2783, 40.2685

Deuteranopia

16.7121, 16.3676, 40.8065



Tritanopia

13.2318, 16.1563, 23.1900

Trichromacy



Original Color

16.7814, 16.2404, 40.7783

Protanomaly

16.9515, 16.1780, 40.2594

Deuteranomaly

16.8010, 16.4134, 40.8107

Tritanomaly

14.3400, 16.0822, 28.7339

Monochromacy



Original Color

16.7814, 16.2404, 40.7783

Achromatopsia

14.8208, 15.5926, 16.9804

Achromatomaly

15.1076, 15.5845, 24.0416

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.7814, 16.2404, 40.7783 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(85, 111, 171)` looks like.

```
.text, #text, p{  
    color:rgb(85, 111, 171)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(85, 111, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 111, 171) }
```

Border

The CSS property to change the border of an element to XYZ 16.7814, 16.2404, 40.7783 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(85, 111, 171) }
```


If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(85, 111, 171) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(85, 111, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 111, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 111, 171);  
box-shadow:4px 4px 4px 4px rgb(85, 111,  
171) }
```

Background

The CSS property to change the background color of an element to XYZ 16.7814, 16.2404, 40.7783 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 111, 171) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(85, 111,  
171) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor