

Converting Colors

XYZ(12.9909, 16.5168, 7.2458)

Have a look what the booklet for
XYZ(12.9909, 16.5168, 7.2458)
contains.

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Color

**XYZ(12.9805, 16.5585,
7.2146)**

Conversions

Conversions Part 1

Format	Color
Hex	65783F
RGB	101, 120, 63
RGB Percent	40%, 47%, 25%
CMY	0.6039, 0.5294, 0.7529
CMYK	0.16, 0.00, 0.47, 0.53
HSL	80°, 31%, 36%
HSV	80°, 47%, 47%
XYZ	12.9805, 16.5585, 7.2146
YIQ	107.8210, 6.9730, -21.7550

Conversions

Conversions Part 2

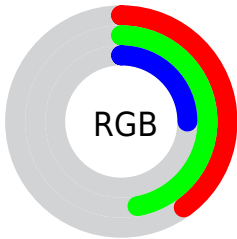
Format	Color
RYB	63, 120, 82
Decimal	6649919
CIELab	47.70, -17.08, 28.89
CIElCh	48, 33.564, 120.584
Yxy	16.5585, 0.3532, 0.4505
Android (android.graphics.Color)	4284839999 (0xFF65783F)
YUV	107.8210, -22.0968, -5.9820
Hunter-Lab	40.6921, -14.2710, 17.9725

Details

The XYZ color **12.9805, 16.5585, 7.2146** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **8.6480, 6.7054, 18.6087**, and the grayscale version is **14.2626, 15.0054, 16.3409**.

A 20% lighter version of the original color is **30.8140, 37.4472, 20.9332**, and **3.7706, 5.2770, 1.3501** is the 20% darker color. If you saturate the color by 10%, you get **12.2441, 16.2140, 5.6164**, and if you desaturate by 10%, it is **13.8127, 16.9450, 9.1997**.

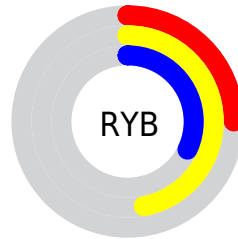
Distribution



Red (40%)

Green (47%)

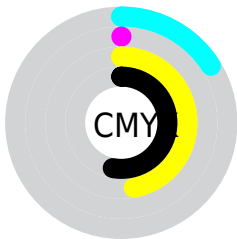
Blue (25%)



Red (25%)

Yellow (47%)

Blue (32%)

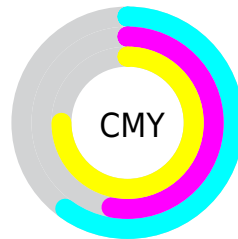


Cyan (16%)

Magenta (0%)

Yellow (47%)

Black (53%)



Cyan (60%)

Magenta (53%)

Yellow (75%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9805, 16.5585, 7.2146 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 12.9805, 16.5585, 7.2146 by changing the saturation by 10% instead.

■ 12.9805, 16.5585,
7.2146

■ 12.9805, 16.5585,
7.2146

■ 204.4328,
232.6151, 179.1332

■ 7.4920, 9.9202,
3.5162

■ 30.8704, 37.5651,
20.9238

■ 3.8207, 5.3461,
1.3639

■ 44.0025, 52.7022,
31.7717

■ 1.6012, 2.4517,
0.1133

■ 60.4131, 71.4411,
45.8399

■ 0.3932, 0.8523,
0.0000

■ 80.4678, 94.1660,
63.5468

■ 0.0000, 0.0000,
0.0000

■ 104.5317,
121.2615, 85.3110

■ 132.9703,

153.1120, 111.5512

166.1488,
190.1017, 142.6857

■ 12.9805, 16.5585,
7.2146

■ 12.9805, 16.5585,
7.2146

■ 12.2441, 16.2140,
5.6164

■ 13.8127, 16.9450,
9.1997

■ 11.5971, 15.9072,
4.3787

■ 14.7440, 17.3731,
11.5935

■ 11.0343, 15.6365,
3.4735

■ 15.7794, 17.8454,
14.4178

■ 10.5492, 15.3993,
2.8683

■ 16.9227, 18.3635,
17.6923

■ 10.1264, 15.1894,
2.4843

■ 18.1777, 18.9289,
21.4355

■ 10.0248, 15.1390,
2.3938

■ 19.5482, 19.5432,
25.6648

■ 21.0375, 20.2078,
30.3970

■ 22.6488, 20.9239,
35.6477

■ 24.3853, 21.6929,
41.4321

Harmonies

Analogous

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



15.6796, 16.5585, 6.0369



12.9805, 16.5585, 7.2146



11.2270, 16.5585, 11.0684

Triad

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



12.9805, 16.5585, 7.2146



13.0704, 16.5585, 36.6017



22.2441, 16.5585, 17.8614

Complementary

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



12.9805, 16.5585, 7.2146



8.6480, 6.7054, 18.6087

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.



21.3205, 16.5585, 27.4276



12.9805, 16.5585, 7.2146



15.7973, 16.5585, 40.1244

Square

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



12.9805, 16.5585, 7.2146



11.2741, 16.5585, 27.8156



18.8615, 16.5585, 36.3321



21.2485, 16.5585, 10.8588

Rectangle

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



12.9805, 16.5585, 7.2146



10.7034, 16.5585, 15.4581



18.8615, 16.5585, 36.3321



22.1467, 16.5585, 20.8711

Sweetspot

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



12.9809, 16.5592, 7.2150



28.3656, 31.6641, 27.0881



11.6608, 10.3871, 6.0932



6.6397, 7.4665, 6.1856



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.9809, 16.5592, 7.2150



21.4258, 28.4651, 9.6574



10.3241, 15.1896, 7.0906



4.1841, 4.5702, 4.2861



10.9206, 16.5070, 2.6106



51.1621, 78.2605, 12.4093

Inverse Universe

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



8.6480, 6.7054, 18.6087



12.8339, 8.8969, 32.2939



11.6611, 8.2587, 18.7497



3.9119, 3.9525, 4.9999



4.6393, 1.9644, 19.5199



21.3126, 8.9491, 93.0738

Previews

White Background



This preview shows how the XYZ color 12.9805, 16.5585, 7.2146 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 12.9805, 16.5585, 7.2146 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 12.9805, 16.5585, 7.2146

Background



This preview shows how black text looks on a background with the XYZ color 12.9805, 16.5585, 7.2146.



This preview shows how white text looks on a background with the XYZ color 12.9805, 16.5585,

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

12.9805, 16.5585, 7.2146

Protanopia

15.0596, 16.4323, 6.7929

Deuteranopia

16.6625, 16.4368, 7.4487



Tritanopia

15.7247, 16.4666, 20.7619

Trichromacy



Original Color

12.9805, 16.5585, 7.2146

Protanomaly

14.3174, 16.5516, 6.9976

Deuteranomaly

15.0605, 16.2551, 7.3448

Tritanomaly

14.5382, 16.4945, 14.7294

Monochromacy



Original Color

12.9805, 16.5585, 7.2146

Achromatopsia

14.2537, 14.9960, 16.3306

Achromatomaly

13.5516, 15.3643, 12.3766

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9805, 16.5585, 7.2146 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(101, 120, 63)` looks like.

```
.text, #text, p{  
    color:rgb(101, 120, 63)  
}
```

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(101, 120, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 120, 63) }
```

Border

The CSS property to change the border of an element to XYZ 12.9805, 16.5585, 7.2146 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(101, 120, 63) }
```


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

```
.border{ border-color:rgb(101, 120, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 120, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 120, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 120, 63);  
box-shadow:4px 4px 4px 4px rgb(101, 120,  
63) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9805, 16.5585, 7.2146 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 120, 63) }
```

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

```
.background{ background-color: rgb(101,  
120, 63) }
```

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](#).

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