

Converting Colors

XYZ(20.0877, 12.7243, 64.3500)

Have a look what the booklet for
XYZ(20.0877, 12.7243, 64.3500)
contains.

XYZ(20.1198, 12.7198, 64.3455)	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(20.1198, 12.7198,
64.3455)**

Conversions

Conversions Part 1

Format	Color
Hex	674BD5
RGB	103, 75, 213
RGB Percent	40%, 29%, 84%
CMY	0.5961, 0.7059, 0.1647
CMYK	0.52, 0.65, 0.00, 0.16
HSL	252°, 62%, 56%
HSV	252°, 65%, 84%
XYZ	20.1198, 12.7198, 64.3455
YIQ	99.1040, -27.6100, 48.8540

Conversions

Conversions Part 2

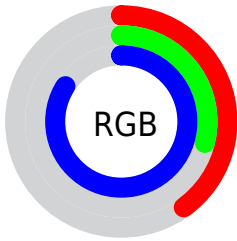
Format	Color
R _Y B	103, 75, 213
Decimal	6769621
CIE Lab	42.34, 46.53, -67.25
CIE LCh	42, 81.780, 304.679
Yxy	12.7198, 0.2070, 0.1309
Android (android.graphics.Color)	4284959701 (0xFF674BD5)
YUV	99.1040, 56.1507, 3.4168
Hunter-Lab	35.6648, 38.2848, -82.0040

Details

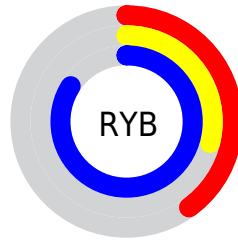
The XYZ color **20.1198, 12.7198, 64.3455** is a dark color, and the websafe version is hex **6633CC**. The color can be described as dark muted purple. A complement of this color would be **45.0710, 58.4105, 15.5555**, and the grayscale version is **11.7545, 12.3666, 13.4673**.

A 20% lighter version of the original color is **40.2839, 29.5686, 98.1919**, and **7.2053, 3.5933, 32.2121** is the 20% darker color. If you saturate the color by 10%, you get **17.1558, 9.3944, 63.8602**, and if you desaturate by 10%, it is **23.9639, 17.2166, 65.0112**.

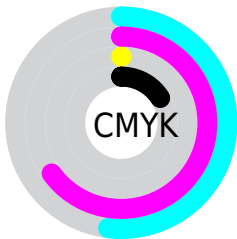
Distribution



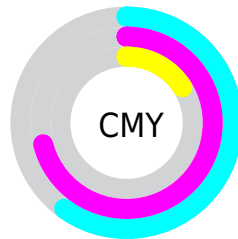
- Red (40%)
- Green (29%)
- Blue (84%)



- Red (40%)
- Yellow (29%)
- Blue (84%)



- Cyan (52%)
- Magenta (65%)
- Yellow (0%)
- Black (16%)



- Cyan (60%)
- Magenta (71%)
- Yellow (16%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.1198, 12.7198, 64.3455 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 20.1198, 12.7198, 64.3455 by changing the saturation by 10% instead.

■ 20.1198, 12.7198,
64.3455

■ 20.1198, 12.7198,
64.3455

245.3841,
209.1140, 458.6779

■ 12.5909, 7.2359,
46.4826

■ 43.1204, 30.7995,
112.7126

■ 7.2225, 3.6101,
32.2754

■ 59.3228, 44.1640,
144.0539

■ 3.6492, 1.4579,
21.3054

■ 79.1470, 60.9242,
180.7251

■ 1.5057, 0.2588,
13.1540

■ 102.9586, 81.4645,
223.1446

■ 0.3297, 0.0000,
7.4027

■ 131.1227,
106.1692, 271.7312

■ 0.0000, 0.0000,
3.6330

164.0047,

■ 0.0000, 0.0000,

135.4228, 326.9032

1.4262

201.9701,
169.6096, 389.0793

■ 0.0000, 0.0000,
0.1620

■ 0.0000, 0.0000,
0.0000

■ 20.1198, 12.7198,
64.3455

■ 20.1198, 12.7198,
64.3455

■ 17.1558, 9.3944,
63.8602

■ 23.9639, 17.2166,
65.0112

■ 14.9954, 7.1259,
63.5362

■ 28.7517, 22.9820,
65.8717

■ 13.5510, 5.7777,
63.3521

■ 34.5431, 30.1044,
66.9412

■ 13.0160, 5.3226,
63.2924

■ 41.3920, 38.6637,
68.2323

■ 49.3488, 48.7335,
69.7566

■ 58.4603, 60.3826,
71.5249

■ 68.7707, 73.6751,
73.5472

■ 80.3218, 88.6720,
75.8331

■ 89.0103, 97.5841,
77.0953

Harmonies

Analogous

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



13.0777, 12.7198, 82.1734



20.1198, 12.7198, 64.3455



26.1939, 12.7198, 33.9047

Triad

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



20.1198, 12.7198, 64.3455



17.8690, 12.7198, 0.0000



3.7324, 12.7198, 16.7921

Complementary

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



20.1198, 12.7198, 64.3455



45.0710, 58.4105, 15.5555

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.



4.2547, 12.7198, 3.8433



20.1198, 12.7198, 64.3455



11.1529, 12.7198, 0.0000

Square

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



20.1198, 12.7198, 64.3455



24.6157, 12.7198, 2.1493



6.5436, 12.7198, 0.4016



4.7526, 12.7198, 43.3340

Rectangle

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



20.1198, 12.7198, 64.3455



28.0485, 12.7198, 17.2248



6.5436, 12.7198, 0.4016



3.7376, 12.7198, 10.9471

Sweetspot

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



20.1205, 12.7202, 64.3458



68.6859, 66.2851, 103.7819



32.3448, 41.1657, 69.1921



13.9711, 13.2641, 22.0738



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

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



20.1205, 12.7202, 64.3458



24.3418, 12.5700, 95.7510



31.4521, 18.5618, 64.8762



11.9757, 12.1289, 15.6474



8.0184, 3.2862, 38.6648



0.5526, 0.2338, 2.3353

Inverse Universe

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



38.7133, 22.6810, 48.2341



54.8782, 28.9857, 66.7481



32.3202, 51.8372, 14.9588



12.8400, 12.5875, 15.0977



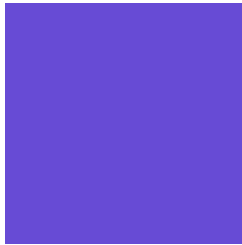
21.2186, 10.4238, 24.2530



1.3078, 0.6399, 1.6101

Previews

White Background



This preview shows how the XYZ color 20.1198, 12.7198, 64.3455 looks on a white background.

Color Contrast Check

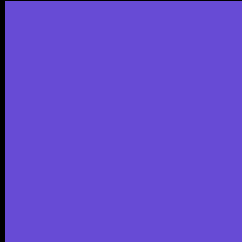
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.1198, 12.7198, 64.3455 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

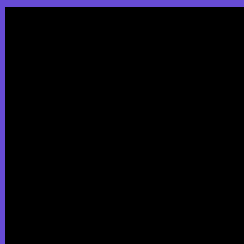
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.1198, 12.7198, 64.3455

Background



This preview shows how black text looks on a background with the XYZ color 20.1198, 12.7198, 64.3455.



This preview shows how white text looks on a background with the XYZ color 20.1198, 12.7198,

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

20.1198, 12.7198, 64.3455

Protanopia

15.0820, 12.7254, 58.7881

Deuteranopia

12.5878, 12.6373, 42.8501



Tritanopia

10.7047, 12.6731, 17.5047

Trichromacy



Original Color

20.1198, 12.7198, 64.3455



Protanomaly

15.5152, 11.8778, 60.5064



Deuteranomaly

13.7754, 11.7217, 49.6806



Tritanomaly

12.9948, 12.0143, 30.0679

Monochromacy



Original Color

20.1198, 12.7198, 64.3455



Achromatopsia

11.8596, 12.4772, 13.5877



Achromatomaly

13.6453, 11.9151, 26.3916

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.1198, 12.7198, 64.3455 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(103, 75, 213)` looks like.

```
.text, #text, p{  
    color:rgb(103, 75, 213)  
}
```

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(103, 75, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 75, 213) }
```

Border

The CSS property to change the border of an element to XYZ 20.1198, 12.7198, 64.3455 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(103, 75, 213) }
```


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

```
.border{ border-color:rgb(103, 75, 213) }
```

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

Here you see how a box with a 4 pixel rgb(103, 75, 213) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 75, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 75, 213);  
box-shadow:4px 4px 4px 4px rgb(103, 75,  
213) }
```

Background

The CSS property to change the background color of an element to XYZ 20.1198, 12.7198, 64.3455 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 75, 213) }
```

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

```
.background{ background-color: rgb(103, 75,  
213) }
```

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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