

Converting Colors

XYZ(12.0998, 10.2258, 21.5860)

Have a look what the booklet for
XYZ(12.0998, 10.2258, 21.5860)
contains.

XYZ(12.1691, 10.3024, 21.7693)	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(12.1691, 10.3024,
21.7693)**

Conversions

Conversions Part 1

Format	Color
Hex	645280
RGB	100, 82, 128
RGB Percent	39%, 32%, 50%
CMY	0.6078, 0.6784, 0.4980
CMYK	0.22, 0.36, 0.00, 0.50
HSL	263°, 22%, 41%
HSV	263°, 36%, 50%
XYZ	12.1691, 10.3024, 21.7693
YIQ	92.6260, -4.0380, 18.1220

Conversions

Conversions Part 2

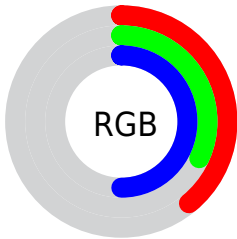
Format	Color
R_{YB}	100, 82, 128
Decimal	6574720
CIE _{Lab}	38.38, 17.61, -23.19
CIE _{LCh}	38, 29.118, 307.213
Yxy	10.3024, 0.2751, 0.2329
Android (android.graphics.Color)	4284764800 (0xFF645280)
YUV	92.6260, 17.4394, 6.4670
Hunter-Lab	32.0974, 11.5045, -17.7439

Details

The XYZ color **12.1691, 10.3024, 21.7693** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **15.6729, 19.3628, 10.8944**, and the grayscale version is **10.2792, 10.8145, 11.7770**.

A 20% lighter version of the original color is **29.5406, 26.5141, 47.2768**, and **3.4890, 2.6177, 7.7185** is the 20% darker color. If you saturate the color by 10%, you get **10.4715, 8.1258, 21.4388**, and if you desaturate by 10%, it is **14.1299, 12.8825, 22.1641**.

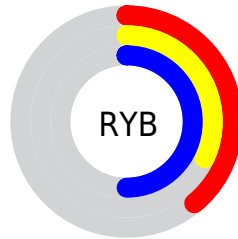
Distribution



Red (39%)

Green (32%)

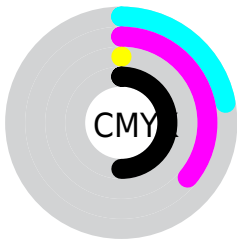
Blue (50%)



Red (39%)

Yellow (32%)

Blue (50%)

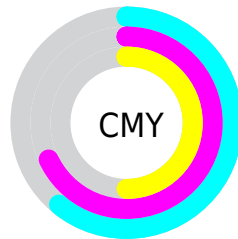


Cyan (22%)

Magenta (36%)

Yellow (0%)

Black (50%)



Cyan (61%)

Magenta (68%)

Yellow (50%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.1691, 10.3024, 21.7693 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 12.1691, 10.3024, 21.7693 by changing the saturation by 10% instead.

■ 12.1691, 10.3024,
21.7693

■ 12.1691, 10.3024,
21.7693

199.2687,
192.8169, 274.2532

■ 6.9320, 5.5999,
13.4908

■ 29.4169, 26.3628,
47.2617

■ 3.4655, 2.6034,
7.6327

■ 42.1583, 38.4894,
65.3127

■ 1.4045, 0.9284,
3.7764

■ 58.1318, 53.8596,
87.4582

■ 0.2594, 0.0000,
1.5035

■ 77.7028, 72.8577,
114.1168

■ 0.0000, 0.0000,
0.2205

■ 101.2366, 95.8680,
145.7071

■ 0.0000, 0.0000,
0.0000

129.0987,

123.2751, 182.6476

161.6542,
155.4633, 225.3568

■ 12.1691, 10.3024,
21.7693

■ 12.1691, 10.3024,
21.7693

■ 10.4715, 8.1258,
21.4388

■ 14.1299, 12.8825,
22.1641

■ 9.0238, 6.3302,
21.1685

■ 16.3643, 15.8845,
22.6258

■ 7.8128, 4.8927,
20.9549

■ 18.8835, 19.3271,
23.1575

■ 6.8238, 3.7874,
20.7937

■ 21.6975, 23.2276,
23.7621

■ 6.0399, 2.9847,
20.6801

■ 24.8160, 27.6023,
24.4421

■ 5.4343, 2.4352,
20.6059

■ 28.2482, 32.4668,
25.2002

■ 5.2160, 2.2389,
20.5795

■ 32.0029, 37.8356,
26.0386

■ 36.0884, 43.7232,
26.9596

■ 40.5128, 50.1429,
27.9656

Harmonies

Analogous

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



10.2575, 10.3024, 25.1089



12.1691, 10.3024, 21.7693



13.5566, 10.3024, 15.7719

Triad

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



12.1691, 10.3024, 21.7693



11.2746, 10.3024, 4.0776



6.5996, 10.3024, 12.5816

Complementary

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



12.1691, 10.3024, 21.7693



15.6729, 19.3628, 10.8944

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.



6.7983, 10.3024, 7.6370



12.1691, 10.3024, 21.7693



9.3410, 10.3024, 3.7155

Square

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



12.1691, 10.3024, 21.7693



12.9954, 10.3024, 6.0097



7.7468, 10.3024, 4.7831



7.1639, 10.3024, 18.7998

Rectangle

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



12.1691, 10.3024, 21.7693



13.9081, 10.3024, 11.7335



7.7468, 10.3024, 4.7831



6.5807, 10.3024, 10.7170

Sweetspot

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



12.1695, 10.3028, 21.7695



30.8253, 30.7069, 40.2586



12.9919, 14.5838, 22.5525



7.1029, 7.0335, 9.4016



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



12.1695, 10.3028, 21.7695



18.9834, 14.9990, 37.8508



15.0299, 11.7774, 21.9034



4.2557, 4.2874, 5.4165



5.1735, 2.2207, 20.4059



0.0000, 0.0000, 0.0000

Inverse Universe

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



14.7342, 11.7499, 16.2435



24.2962, 18.0015, 26.1860



13.2073, 18.0917, 10.7790



4.4291, 4.3848, 5.0639



10.1882, 5.0950, 7.5808



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.1691, 10.3024, 21.7693 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 12.1691, 10.3024, 21.7693 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 12.1691, 10.3024, 21.7693

Background



This preview shows how black text looks on a background with the XYZ color 12.1691, 10.3024, 21.7693.



This preview shows how white text looks on a background with the XYZ color 12.1691, 10.3024,

21.7693.

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

12.1691, 10.3024, 21.7693

Protanopia

10.7771, 10.3618, 23.9863

Deuteranopia

10.4802, 10.2708, 21.1688



Tritanopia

10.2998, 10.3690, 12.5249

Trichromacy



Original Color

12.1691, 10.3024, 21.7693

Protanomaly

11.1488, 10.2063, 23.2122

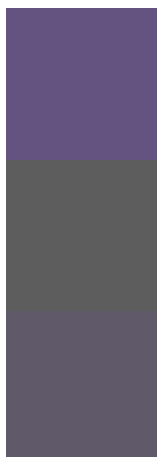
Deuteranomaly

10.9963, 10.1663, 21.4614

Tritanomaly

10.8584, 10.2251, 15.5887

Monochromacy



Original Color

12.1691, 10.3024, 21.7693

Achromatopsia

10.4043, 10.9462, 11.9204

Achromatomaly

10.9978, 10.6722, 15.1160

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.1691, 10.3024, 21.7693 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(100, 82, 128)` looks like.

```
.text, #text, p{  
    color:rgb(100, 82, 128)  
}
```

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(100, 82, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 82, 128) }
```

Border

The CSS property to change the border of an element to XYZ 12.1691, 10.3024, 21.7693 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(100, 82, 128) }
```


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

```
.border{ border-color:rgb(100, 82, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 82, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 82, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 82, 128);  
box-shadow:4px 4px 4px 4px rgb(100, 82,  
128) }
```

Background

The CSS property to change the background color of an element to XYZ 12.1691, 10.3024, 21.7693 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 82, 128) }
```

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

```
.background{ background-color: rgb(100, 82,  
128) }
```

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