

Converting Colors

XYZ(12.1288, 12.8828, 13.7900)

Have a look what the booklet for
XYZ(12.1288, 12.8828, 13.7900)
contains.

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Color

**XYZ(12.2095, 12.9368,
13.9101)**

Conversions

Conversions Part 1

Format	Color
Hex	646564
RGB	100, 101, 100
RGB Percent	39%, 40%, 39%
CMY	0.6078, 0.6039, 0.6078
CMYK	0.01, 0.00, 0.01, 0.60
HSL	120°, 0%, 39%
HSV	120°, 1%, 40%
XYZ	12.2095, 12.9368, 13.9101
YIQ	100.5870, -0.2750, -0.5230

Conversions

Conversions Part 2

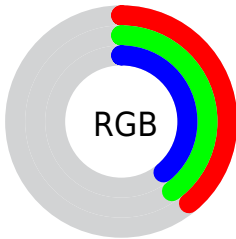
Format	Color
R_{YB}	100, 101, 101
Decimal	6579556
CIE Lab	42.67, -0.59, 0.42
CIE LCh	43, 0.730, 144.590
Yxy	12.9368, 0.3126, 0.3312
Android (android.graphics.Color)	4284769636 (0xFF646564)
YUV	100.5870, -0.2894, -0.5148
Hunter-Lab	35.9678, -2.3506, 2.2477

Details

The XYZ color **12.2095, 12.9368, 13.9101** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **12.2734, 12.8209, 14.1404**, and the grayscale version is **12.2644, 12.9031, 14.0515**.

A 20% lighter version of the original color is **29.5766, 31.2701, 33.7550**, and **3.4300, 3.6523, 3.8923** is the 20% darker color. If you saturate the color by 10%, you get **10.7025, 12.2133, 11.4440**, and if you desaturate by 10%, it is **13.9163, 13.7570, 16.7026**.

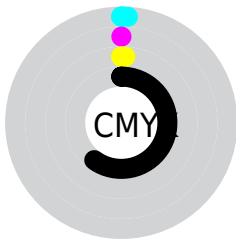
Distribution



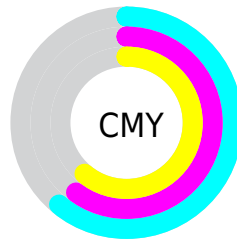
- Red (39%)
- Green (40%)
- Blue (39%)



- Red (39%)
- Yellow (40%)
- Blue (40%)



- Cyan (1%)
- Magenta (0%)
- Yellow (1%)
- Black (60%)



- Cyan (61%)
- Magenta (60%)
- Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2095, 12.9368, 13.9101 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 12.2095, 12.9368, 13.9101 by changing the saturation by 10% instead.

■ 12.2095, 12.9368,
13.9101

■ 12.2095, 12.9368,
13.9101

199.5291,
210.5122, 228.0798

■ 6.9597, 7.3850,
7.9201

■ 29.4897, 31.1902,
33.6443

■ 3.4830, 3.7040,
3.9568

■ 42.2508, 44.6606,
48.2255

■ 1.4141, 1.5094,
1.6017

■ 58.2463, 61.5394,
66.5076

■ 0.2662, 0.2953,
0.2920

■ 77.8418, 82.2109,
88.9091

■ 0.0000, 0.0000,
0.0000

101.4024,
107.0595, 115.8486

129.2936,

136.4697, 147.7444

161.8807,
170.8258, 185.0153

■ 12.2095, 12.9368,
13.9101

■ 12.2095, 12.9368,
13.9101

■ 10.7025, 12.2133,
11.4440

■ 13.9163, 13.7570,
16.7026

■ 9.3869, 11.5814,
9.2914

■ 15.8285, 14.6755,
19.8318

■ 8.2554, 11.0378,
7.4402

■ 17.9533, 15.6961,
23.3087

■ 7.2997, 10.5788,
5.8769

■ 20.2967, 16.8217,
27.1437

■ 6.5111, 10.2000,
4.5869

■ 22.8648, 18.0553,
31.3464

■ 5.8799, 9.8968,
3.5547

■ 25.6634, 19.3996,
35.9264

■ 5.3957, 9.6642,
2.7629

■ 28.6980, 20.8572,
40.8928

■ 5.0465, 9.4964,
2.1920

■ 31.9740, 22.4307,
46.2543

■ 4.8183, 9.3868,
1.8192

■ 35.4966, 24.1227,
52.0195

Harmonies

Analogous

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



12.2518, 12.9368, 13.8106



12.2095, 12.9368, 13.9101



12.1904, 12.9368, 14.0573

Triad

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



12.2095, 12.9368, 13.9101



12.2860, 12.9368, 14.3916



12.3931, 12.9368, 13.9595

Complementary

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



12.2095, 12.9368, 13.9101



12.2734, 12.8209, 14.1404

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.



12.4023, 12.9368, 14.1147



12.2095, 12.9368, 13.9101



12.3404, 12.9368, 14.3650

Square

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



12.2095, 12.9368, 13.9101



12.2345, 12.9368, 14.3359



12.3830, 12.9368, 14.2633



12.3578, 12.9368, 13.8390

Rectangle

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



12.2095, 12.9368, 13.9101



12.1933, 12.9368, 14.1629



12.3830, 12.9368, 14.2633



12.3993, 12.9368, 14.0093

Sweetspot

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



12.2099, 12.9374, 13.9104



21.2355, 22.3414, 24.3298



12.3197, 12.9916, 13.9151



5.2251, 5.4972, 5.9864



51.1593, 53.8236, 58.6138

Same Dimension

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



12.2099, 12.9374, 13.9104



20.9505, 22.2045, 23.8634



12.2333, 12.9467, 14.0342



3.1099, 3.2928, 3.5450



6.1030, 12.2049, 2.0341



31.8282, 63.6540, 10.6089

Inverse Universe

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



12.2734, 12.8209, 14.1404



21.0634, 21.9974, 24.2725



12.2498, 12.8115, 14.0158



3.1244, 3.2661, 3.5977



10.1095, 4.8558, 16.5488



52.7241, 25.3245, 86.3106

Previews

White Background



This preview shows how the XYZ color 12.2095, 12.9368, 13.9101 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 12.2095, 12.9368, 13.9101 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

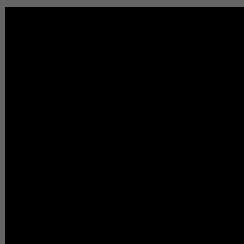
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

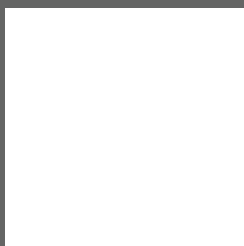
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.2095, 12.9368, 13.9101

Background



This preview shows how black text looks on a background with the XYZ color 12.2095, 12.9368, 13.9101.



This preview shows how white text looks on a background with the XYZ color 12.2095, 12.9368,

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

12.2095, 12.9368, 13.9101

Protanopia

12.4509, 12.9180, 13.8938

Deuteranopia

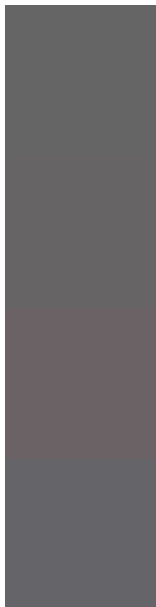
13.0541, 12.8040, 14.0953



Tritanopia

12.6308, 12.9638, 16.0239

Trichromacy



Original Color

12.2095, 12.9368, 13.9101

Protanomaly

12.3369, 12.8592, 13.8884

Deuteranomaly

12.6605, 12.7391, 14.1035

Tritanomaly

12.4738, 12.9010, 15.1973

Monochromacy



Original Color

12.2095, 12.9368, 13.9101

Achromatopsia

12.3695, 13.0136, 14.1719

Achromatomaly

12.3695, 13.0136, 14.1719

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2095, 12.9368, 13.9101 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, 101, 100)` looks like.

```
.text, #text, p{  
    color:rgb(100, 101, 100)  
}
```

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, 101, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 101, 100) }
```

Border

The CSS property to change the border of an element to XYZ 12.2095, 12.9368, 13.9101 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, 101, 100) }
```

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

```
.border{ border-color:rgb(100, 101, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 101, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 101, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 101, 100);  
box-shadow:4px 4px 4px 4px rgb(100, 101,  
100) }
```


Background

The CSS property to change the background color of an element to XYZ 12.2095, 12.9368, 13.9101 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 101, 100) }
```

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

```
.background{ background-color: rgb(100,  
101, 100) }
```

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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