

Converting Colors

XYZ(12.1431, 16.3042, 20.1263)

Have a look what the booklet for
XYZ(12.1431, 16.3042, 20.1263)
contains.

XYZ(12.2180, 16.4215, 20.2950)	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(12.2180, 16.4215,
20.2950)**

Conversions

Conversions Part 1

Format	Color
Hex	3A7B78
RGB	58, 123, 120
RGB Percent	23%, 48%, 47%
CMY	0.7725, 0.5176, 0.5294
CMYK	0.53, 0.00, 0.02, 0.52
HSL	177°, 36%, 35%
HSV	177°, 53%, 48%
XYZ	12.2180, 16.4215, 20.2950
YIQ	103.2230, -37.7770, -14.7130

Conversions

Conversions Part 2

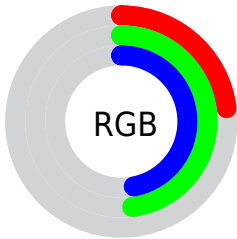
Format	Color
RYB	58, 91, 123
Decimal	3832696
CIELab	47.52, -21.46, -4.72
CIElCh	48, 21.976, 192.413
Yxy	16.4215, 0.2497, 0.3356
Android (android.graphics.Color)	4282022776 (0xFF3A7B78)
YUV	103.2230, 8.2711, -39.6606
Hunter-Lab	40.5235, -17.0975, -1.3273

Details

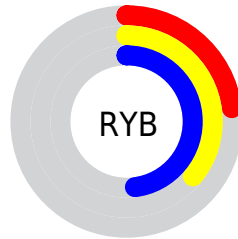
The XYZ color **12.2180, 16.4215, 20.2950** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **10.5242, 7.5744, 5.3227**, and the grayscale version is **12.9375, 13.6112, 14.8226**.

A 20% lighter version of the original color is **29.5273, 37.4087, 44.6941**, and **3.6185, 5.3654, 6.9758** is the 20% darker color. If you saturate the color by 10%, you get **11.5524, 16.0827, 20.0848**, and if you desaturate by 10%, it is **13.0557, 16.8497, 20.5150**.

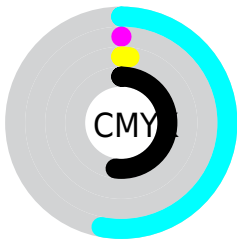
Distribution



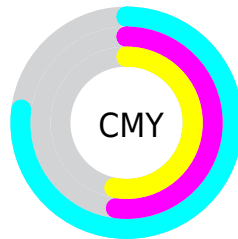
- Red (23%)
- Green (48%)
- Blue (47%)



- Red (23%)
- Yellow (36%)
- Blue (48%)



- Cyan (53%)
- Magenta (0%)
- Yellow (2%)
- Black (52%)



- Cyan (77%)
- Magenta (52%)
- Yellow (53%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2180, 16.4215, 20.2950 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 12.2180, 16.4215, 20.2950 by changing the saturation by 10% instead.

■ 12.2180, 16.4215,
20.2950

■ 12.2180, 16.4215,
20.2950

■ 199.5838,
231.8162, 266.1645

■ 6.9656, 9.8229,
12.4235

■ 29.5050, 37.3284,
44.7767

■ 3.4867, 5.2817,
6.9067

■ 42.2702, 52.4055,
62.2239

■ 1.4161, 2.4135,
3.3263

■ 58.2704, 71.0776,
83.7001

■ 0.2676, 0.8328,
1.2636

■ 77.8710, 93.7290,
109.6238

■ 0.0000, 0.0000,
0.0316

■ 101.4373,
120.7442, 140.4135

■ 0.0000, 0.0000,
0.0000

■ 129.3346,

152.5075, 176.4879

161.9283,
189.4034, 218.2654

■ 12.2180, 16.4215,
20.2950

■ 12.2180, 16.4215,
20.2950

■ 11.5524, 16.0827,
20.0848

■ 13.0557, 16.8497,
20.5150

■ 11.0450, 15.8251,
19.8827

■ 14.0751, 17.3713,
20.7443

■ 10.6823, 15.6421,
19.6884

■ 15.2870, 17.9920,
20.9837

■ 10.4473, 15.5248,
19.5012

■ 16.7008, 18.7167,
21.2335

■ 10.3131, 15.4584,
19.3695

■ 18.3254, 19.5502,
21.4943

■ 20.1690, 20.4965,
21.7664

■ 22.2395, 21.5597,
22.0503

■ 24.5444, 22.7438,
22.3461

■ 27.0908, 24.0523,
22.6544

Harmonies

Analogous

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



12.2927, 16.4215, 14.8212



12.2180, 16.4215, 20.2950



12.9946, 16.4215, 26.1663

Triad

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



12.2180, 16.4215, 20.2950



18.2826, 16.4215, 27.0620



16.7715, 16.4215, 9.4575

Complementary

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



12.2180, 16.4215, 20.2950



10.5242, 7.5744, 5.3227

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.



18.5505, 16.4215, 11.5590



12.2180, 16.4215, 20.2950



19.4717, 16.4215, 21.3335

Square

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



12.2180, 16.4215, 20.2950



16.4300, 16.4215, 30.5862



19.5737, 16.4215, 15.6650



14.8142, 16.4215, 9.2940

Rectangle

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



12.2180, 16.4215, 20.2950



13.9316, 16.4215, 29.2167



19.5737, 16.4215, 15.6650



17.4140, 16.4215, 9.9367

Sweetspot

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



12.2185, 16.4221, 20.2954



28.9651, 33.0333, 37.8615



9.7870, 15.4721, 6.4738



6.7213, 7.7284, 8.8993



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.2185, 16.4221, 20.2954



20.5124, 28.7104, 35.9028



9.3010, 10.2911, 20.2358



4.0995, 4.5094, 5.0576



10.6679, 15.9908, 20.0340



50.7983, 76.2423, 95.0964

Inverse Universe

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



10.5242, 7.5744, 5.3227



17.1429, 11.0856, 6.1037



12.3611, 11.3739, 5.5471



4.0051, 4.0178, 4.2246



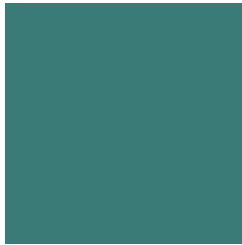
8.4818, 4.3689, 0.5619



40.3723, 20.8053, 2.2249

Previews

White Background



This preview shows how the XYZ color 12.2180, 16.4215, 20.2950 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 12.2180, 16.4215, 20.2950 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 12.2180, 16.4215, 20.2950

Background



This preview shows how black text looks on a background with the XYZ color 12.2180, 16.4215, 20.2950.



This preview shows how white text looks on a background with the XYZ color 12.2180, 16.4215,

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

12.2180, 16.4215, 20.2950

Protanopia

15.7142, 16.3580, 17.9520

Deuteranopia

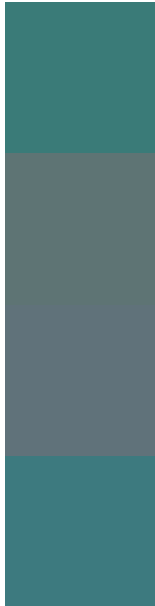
16.5150, 16.2189, 20.9990



Tritanopia

12.9207, 16.3376, 23.9452

Trichromacy



Original Color

12.2180, 16.4215, 20.2950

Protanomaly

14.0139, 16.1314, 18.8981

Deuteranomaly

14.3540, 15.9266, 20.7299

Tritanomaly

12.7148, 16.4435, 22.5824

Monochromacy



Original Color

12.2180, 16.4215, 20.2950

Achromatopsia

12.8919, 13.5633, 14.7705

Achromatomaly

12.2667, 14.2822, 16.5782

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2180, 16.4215, 20.2950 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(58, 123, 120)` looks like.

```
.text, #text, p{  
    color:rgb(58, 123, 120)  
}
```

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(58, 123, 120) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(58, 123, 120) }
```

Border

The CSS property to change the border of an element to XYZ 12.2180, 16.4215, 20.2950 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(58, 123, 120) }
```


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

```
.border{ border-color:rgb(58, 123, 120) }
```

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

Here you see how a box with a 4 pixel `rgb(58, 123, 120)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(58, 123, 120); -webkit-box-  
shadow:4px 4px 4px 4px rgb(58, 123, 120);  
box-shadow:4px 4px 4px 4px rgb(58, 123,  
120) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2180, 16.4215, 20.2950 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(58, 123, 120) }
```

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

```
.background{ background-color: rgb(58, 123,  
120) }
```

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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