

Converting Colors

XYZ(12.2407, 18.7921, 21.6196)

Have a look what the booklet for
XYZ(12.2407, 18.7921, 21.6196)
contains.

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Color

**XYZ(12.2391, 18.7580,
21.7145)**

Conversions

Conversions Part 1

Format	Color
Hex	00877B
RGB	0, 135, 123
RGB Percent	0%, 53%, 48%
CMY	1.0000, 0.4706, 0.5176
CMYK	1.00, 0.00, 0.09, 0.47
HSL	175°, 100%, 26%
HSV	175°, 100%, 53%
XYZ	12.2391, 18.7580, 21.7145
YIQ	93.2670, -76.6080, -32.3520

Conversions

Conversions Part 2

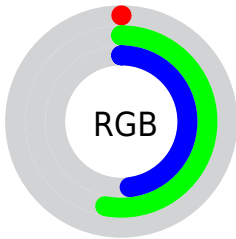
Format	Color
RYB	0, 71, 135
Decimal	34683
CIELab	50.40, -33.73, -2.36
CIELCh	50, 33.814, 184.005
Yxy	18.7580, 0.2322, 0.3559
Android (android.graphics.Color)	4278224763 (0xFF00877B)
YUV	93.2670, 14.6584, -81.7952
Hunter-Lab	43.3105, -25.3511, 0.5912

Details

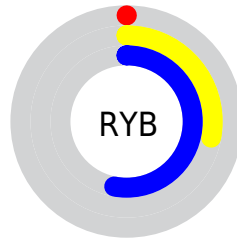
The XYZ color **12.2391, 18.7580, 21.7145** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **10.0586, 5.1779, 0.8176**, and the grayscale version is **10.4476, 10.9917, 11.9699**.

A 20% lighter version of the original color is **29.5027, 41.3293, 46.9798**, and **4.4064, 6.8351, 7.5656** is the 20% darker color. If you saturate the color by 10%, you get **12.2394, 18.7586, 21.7146**, and if you desaturate by 10%, it is **12.4887, 18.8784, 22.1213**.

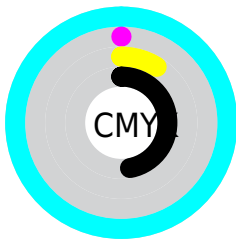
Distribution



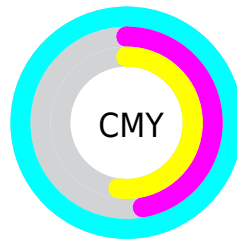
- Red (0%)
- Green (53%)
- Blue (48%)



- Red (0%)
- Yellow (28%)
- Blue (53%)



- Cyan (100%)
- Magenta (0%)
- Yellow (9%)
- Black (47%)



- Cyan (100%)
- Magenta (47%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2391, 18.7580, 21.7145 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 12.2391, 18.7580, 21.7145 by changing the saturation by 10% instead.

■ 12.2391, 18.7580,
21.7145

■ 12.2391, 18.7580,
21.7145

■ 199.7196,
245.1095, 273.9564

■ 6.9801, 11.4955,
13.4510

■ 29.5429, 41.3248,
47.1698

■ 3.4959, 6.4012,
7.6054

■ 42.3185, 57.3979,
65.1986

■ 1.4211, 3.0905,
3.7594

■ 58.3302, 77.1767,
87.3197

■ 0.2712, 1.1792,
1.4943

■ 77.9435, 101.0455,
113.9514

■ 0.0000, 0.0446,
0.2137

■ 101.5237,
129.3888, 145.5124

■ 0.0000, 0.0000,
0.0000

■ 129.4363,

162.5910, 182.4212

162.0464,
201.0364, 225.0963

■ 12.2391, 18.7580,
21.7145

■ 12.2391, 18.7580,
21.7145

■ 12.2394, 18.7586,
21.7146

■ 12.4887, 18.8784,
22.1213

■ 12.8440, 19.0527,
22.5374

■ 13.3643, 19.3120,
22.9661

■ 14.0696, 19.6665,
23.4083

■ 14.9770, 20.1251,
23.8648

■ 16.1017, 20.6956,
24.3364

■ 17.4573, 21.3851,
24.8237

■ 19.0566, 22.2001,
25.3274

■ 20.9111, 23.1465,
25.8479

Harmonies

Analogous

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



12.7310, 18.7580, 13.4750



12.2391, 18.7580, 21.7145



13.0869, 18.7580, 32.3091

Triad

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



12.2391, 18.7580, 21.7145



21.6015, 18.7580, 39.3994



20.7443, 18.7580, 8.0942

Complementary

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



12.2391, 18.7580, 21.7145



10.0586, 5.1779, 0.8176

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.



23.5970, 18.7580, 11.8830



12.2391, 18.7580, 21.7145



24.1331, 18.7580, 29.4271

Square

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



12.2391, 18.7580, 21.7145



18.2739, 18.7580, 44.3183



24.9045, 18.7580, 19.1862



17.3912, 18.7580, 7.1680

Rectangle

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



12.2391, 18.7580, 21.7145



14.3671, 18.7580, 38.8434



24.9045, 18.7580, 19.1862



21.8065, 18.7580, 9.0026

Sweetspot

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



12.2396, 18.7587, 21.7149



31.0828, 38.2043, 44.3927



8.8380, 17.4181, 2.8966



6.9830, 8.7381, 10.2060



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.2396, 18.7587, 21.7149



21.8876, 33.5799, 38.7269



7.3164, 7.6352, 24.0106



4.7842, 5.2719, 5.8751



11.2884, 17.2982, 20.0359



0.0404, 0.0604, 0.0763

Inverse Universe

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



10.0586, 5.1779, 0.8176



17.9841, 9.2606, 1.3159



11.3116, 7.7902, 0.9078



4.6881, 4.6949, 4.9701



9.2773, 4.7753, 0.7667



0.0332, 0.0170, 0.0080

Previews

White Background



This preview shows how the XYZ color 12.2391, 18.7580, 21.7145 looks on a white 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

Black Background



This preview shows how the XYZ color 12.2391, 18.7580, 21.7145 looks on a black 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

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

XYZ 12.2391, 18.7580, 21.7145

Background



This preview shows how black text looks on a background with the XYZ color 12.2391, 18.7580, 21.7145.

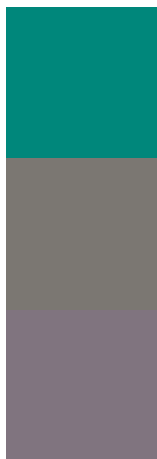


This preview shows how white text looks on a background with the XYZ color 12.2391, 18.7580,

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

12.2391, 18.7580, 21.7145

Protanopia

17.8025, 18.6195, 18.5752

Deuteranopia

18.9782, 18.6123, 22.6709



Tritanopia

13.8364, 18.8090, 28.8879

Trichromacy



Original Color

12.2391, 18.7580, 21.7145

Protanomaly

13.6864, 17.5713, 19.4999

Deuteranomaly

14.2422, 17.4216, 22.3507

Tritanomaly

13.1407, 18.7121, 26.2118

Monochromacy



Original Color

12.2391, 18.7580, 21.7145

Achromatopsia

10.4043, 10.9462, 11.9204

Achromatomaly

9.6649, 12.6544, 15.0299

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2391, 18.7580, 21.7145 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(0, 135, 123)` looks like.

```
.text, #text, p{  
    color:rgb(0, 135, 123)  
}
```

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(0, 135, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 135, 123) }
```

Border

The CSS property to change the border of an element to XYZ 12.2391, 18.7580, 21.7145 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(0, 135, 123) }
```


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

```
.border{ border-color:rgb(0, 135, 123) }
```

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

Here you see how a box with a 4 pixel rgb(0, 135, 123) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 135, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 135, 123);  
box-shadow:4px 4px 4px 4px rgb(0, 135,  
123) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2391, 18.7580, 21.7145 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 135, 123) }
```

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

```
.background{ background-color: rgb(0, 135,  
123) }
```

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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