

Converting Colors

XYZ(12.5155, 18.8974, 21.8678)

Have a look what the booklet for
XYZ(12.5155, 18.8974, 21.8678)
contains.

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Color

**XYZ(12.4886, 18.8866,
21.7262)**

Conversions

Conversions Part 1

Format	Color
Hex	12877B
RGB	18, 135, 123
RGB Percent	7%, 53%, 48%
CMY	0.9294, 0.4706, 0.5176
CMYK	0.87, 0.00, 0.09, 0.47
HSL	174°, 76%, 30%
HSV	174°, 87%, 53%
XYZ	12.4886, 18.8866, 21.7262
YIQ	98.6490, -65.8800, -28.5360

Conversions

Conversions Part 2

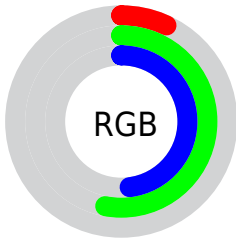
Format	Color
RYB	18, 80, 135
Decimal	1214331
CIELab	50.55, -32.68, -2.12
CIELCh	51, 32.749, 183.715
Yxy	18.8866, 0.2352, 0.3557
Android (android.graphics.Color)	4279404411 (0xFF12877B)
YUV	98.6490, 12.0050, -70.7292
Hunter-Lab	43.4587, -24.7577, 0.7804

Details

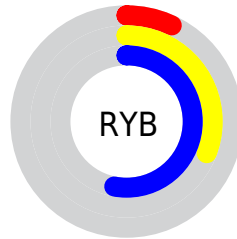
The XYZ color **12.4886, 18.8866, 21.7262** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **10.4430, 5.6778, 1.7746**, and the grayscale version is **11.7552, 12.3674, 13.4681**.

A 20% lighter version of the original color is **29.9600, 41.5650, 47.0012**, and **4.4064, 6.8351, 7.5656** is the 20% darker color. If you saturate the color by 10%, you get **12.2098, 18.7533, 21.2642**, and if you desaturate by 10%, it is **12.9074, 19.0929, 22.2020**.

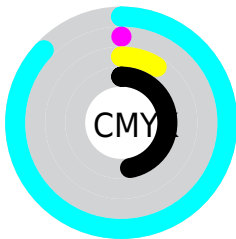
Distribution



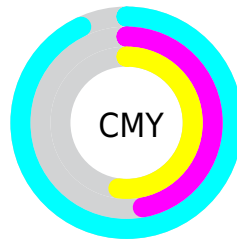
- Red (7%)
- Green (53%)
- Blue (48%)



- Red (7%)
- Yellow (31%)
- Blue (53%)



- Cyan (87%)
- Magenta (0%)
- Yellow (9%)
- Black (47%)



- Cyan (93%)
- Magenta (47%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.4886, 18.8866, 21.7262 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 12.4886, 18.8866, 21.7262 by changing the saturation by 10% instead.

■ 12.4886, 18.8866,
21.7262

■ 12.4886, 18.8866,
21.7262

201.3182,
245.8220, 274.0198

■ 7.1519, 11.5884,
13.4595

■ 29.9911, 41.5424,
47.1894

■ 3.6045, 6.4640,
7.6113

■ 42.8877, 57.6687,
65.2230

■ 1.4809, 3.1293,
3.7630

■ 59.0349, 77.5066,
87.3492

■ 0.3128, 1.1996,
1.4963

■ 78.7981, 101.4403,
113.9867

■ 0.0000, 0.0614,
0.2151

■ 102.5427,
129.8543, 145.5540

■ 0.0000, 0.0000,
0.0000

■ 130.6340,

163.1330, 182.4695

163.4374,
201.6608, 225.1520

■ 12.4886, 18.8866,
21.7262

■ 12.4886, 18.8866,
21.7262

■ 12.2098, 18.7533,
21.2642

■ 12.9074, 19.0929,
22.2020

■ 12.1249, 18.7128,
21.1115

■ 13.4981, 19.3871,
22.6919

■ 14.2800, 19.7799,
23.1972

■ 15.2696, 20.2795,
23.7187

■ 16.4815, 20.8936,
24.2571

■ 17.9290, 21.6290,
24.8130

■ 19.6244, 22.4920,
25.3871

■ 21.5790, 23.4886,
25.9799

■ 23.8036, 24.6242,
26.5920

Harmonies

Analogous

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



12.9840, 18.8866, 13.7112



12.4886, 18.8866, 21.7262



13.3076, 18.8866, 31.9669

Triad

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



12.4886, 18.8866, 21.7262



21.5843, 18.8866, 38.9618



20.8136, 18.8866, 8.4729

Complementary

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



12.4886, 18.8866, 21.7262



10.4430, 5.6778, 1.7746

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.



23.5659, 18.8866, 12.2579



12.4886, 18.8866, 21.7262



24.0467, 18.8866, 29.3883

Square

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



12.4886, 18.8866, 21.7262



18.3524, 18.8866, 43.6130



24.8114, 18.8866, 19.4446



17.5558, 18.8866, 7.5232

Rectangle

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



12.4886, 18.8866, 21.7262



14.5531, 18.8866, 38.2722



24.8114, 18.8866, 19.4446



21.8408, 18.8866, 9.3864

Sweetspot

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



12.4891, 18.8873, 21.7266



32.1279, 38.7431, 44.4416



9.3587, 17.6739, 3.4909



7.2501, 8.8757, 10.2224



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.



12.4891, 18.8873, 21.7266



21.6786, 33.4963, 37.6260



8.2923, 9.2166, 24.2644



4.7816, 5.2709, 5.8611



11.1831, 17.2561, 19.4816



0.0402, 0.0604, 0.0752

Inverse Universe

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



10.4430, 5.6778, 1.7746



18.0028, 9.2681, 1.4144



11.8709, 8.7341, 1.6329



4.6906, 4.6959, 4.9828



9.2885, 4.7797, 0.8254



0.0334, 0.0170, 0.0090

Previews

White Background



This preview shows how the XYZ color 12.4886, 18.8866, 21.7262 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 12.4886, 18.8866, 21.7262 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

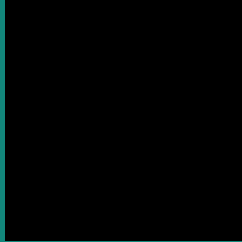
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.4886, 18.8866, 21.7262

Background



This preview shows how black text looks on a background with the XYZ color 12.4886, 18.8866, 21.7262.

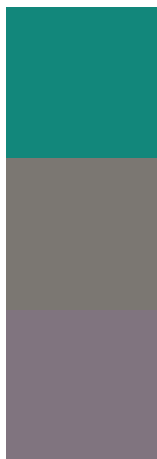


This preview shows how white text looks on a background with the XYZ color 12.4886, 18.8866,

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

12.4886, 18.8866, 21.7262

Protanopia

17.8025, 18.6195, 18.5752

Deuteranopia

18.9782, 18.6123, 22.6709



Tritanopia

13.9721, 18.8790, 28.8942

Trichromacy



Original Color

12.4886, 18.8866, 21.7262

Protanomaly

14.2908, 17.8829, 19.5282

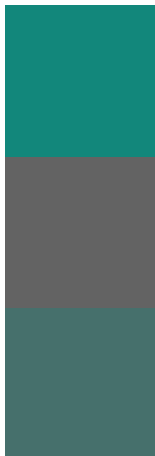
Deuteranomaly

14.8734, 17.7470, 22.3803

Tritanomaly

13.3669, 18.8287, 26.2223

Monochromacy



Original Color

12.4886, 18.8866, 21.7262

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

11.0267, 13.9731, 16.3033

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.4886, 18.8866, 21.7262 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(18, 135, 123)` looks like.

```
.text, #text, p{  
  color:rgb(18, 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(18, 135, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 135, 123) }
```

Border

The CSS property to change the border of an element to XYZ 12.4886, 18.8866, 21.7262 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(18, 135, 123) }
```


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

```
.border{ border-color:rgb(18, 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(18, 135, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 135, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 135, 123);  
box-shadow:4px 4px 4px 4px rgb(18, 135,  
123) }
```

Background

The CSS property to change the background color of an element to XYZ 12.4886, 18.8866, 21.7262 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 135, 123) }
```

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

```
.background{ background-color: rgb(18, 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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