

Converting Colors

XYZ(11.6316, 18.9997, 21.7026)

Have a look what the booklet for
XYZ(11.6316, 18.9997, 21.7026)
contains.

XYZ(12.6636, 19.6070, 21.8560)	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(12.6636, 19.6070,
21.8560)**

Conversions

Conversions Part 1

Format	Color
Hex	008A7B
RGB	0, 138, 123
RGB Percent	0%, 54%, 48%
CMY	1.0000, 0.4588, 0.5176
CMYK	1.00, 0.00, 0.11, 0.46
HSL	173°, 100%, 27%
HSV	173°, 100%, 54%
XYZ	12.6636, 19.6070, 21.8560
YIQ	95.0280, -77.4330, -33.9210

Conversions

Conversions Part 2

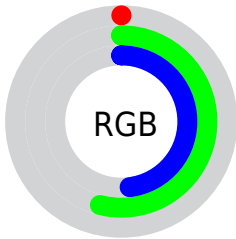
Format	Color
RYB	0, 73, 138
Decimal	35451
CIELab	51.39, -35.10, -0.91
CIELCh	51, 35.112, 181.490
Yxy	19.6070, 0.2340, 0.3622
Android (android.graphics.Color)	4278225531 (0xFF008A7B)
YUV	95.0280, 13.7902, -83.3396
Hunter-Lab	44.2798, -26.4403, 1.7310

Details

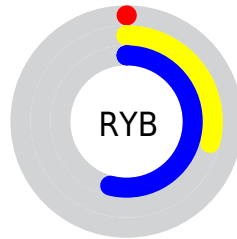
The XYZ color **12.6636, 19.6070, 21.8560** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **10.5680, 5.4383, 0.9451**, and the grayscale version is **10.8663, 11.4322, 12.4497**.

A 20% lighter version of the original color is **30.2437, 42.6792, 47.2013**, and **4.6442, 7.3108, 7.6449** is the 20% darker color. If you saturate the color by 10%, you get **12.6639, 19.6076, 21.8560**, and if you desaturate by 10%, it is **12.9369, 19.7374, 22.3633**.

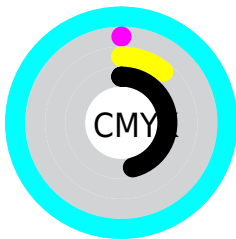
Distribution



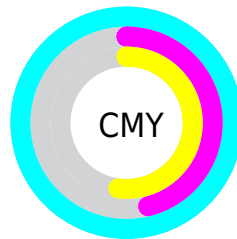
- Red (0%)
- Green (54%)
- Blue (48%)



- Red (0%)
- Yellow (29%)
- Blue (54%)



- Cyan (100%)
- Magenta (0%)
- Yellow (11%)
- Black (46%)



- Cyan (100%)
- Magenta (46%)
- Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.6636, 19.6070, 21.8560 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 12.6636, 19.6070, 21.8560 by changing the saturation by 10% instead.

12.6636, 19.6070,
21.8560

12.6636, 19.6070,
21.8560

202.4318,
249.7796, 274.7223

7.2727, 12.1097,
13.5538

30.3046, 42.7573,
47.4070

3.6811, 6.8184,
7.6758

43.2854, 59.1791,
65.4929

1.5233, 3.3488,
3.8034

59.5268, 79.3445,
87.6772

0.3416, 1.3164,
1.5181

79.3943, 103.6379,
114.3783

0.0000, 0.1539,
0.2314

103.2532,
132.4437, 146.0148

0.0000, 0.0000,
0.0000

131.4689,

166.1463, 183.0053

164.4066,
205.1302, 225.7683

■ 12.6636, 19.6070,
21.8560

■ 12.6636, 19.6070,
21.8560

■ 12.6639, 19.6076,
21.8560

■ 12.9369, 19.7374,
22.3633

■ 13.3232, 19.9254,
22.8830

■ 13.8834, 20.2030,
23.4184

■ 14.6386, 20.5809,
23.9706

■ 15.6071, 21.0685,
24.5404

■ 16.8047, 21.6741,
25.1285

■ 18.2460, 22.4052,
25.7358

■ 19.9443, 23.2686,
26.3629

■ 21.9118, 24.2706,
27.0103

Harmonies

Analogous

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



13.3058, 19.6070, 13.3791



12.6636, 19.6070, 21.8560



13.4467, 19.6070, 33.1384

Triad

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



12.6636, 19.6070, 21.8560



22.3935, 19.6070, 42.4711



22.0512, 19.6070, 8.4578

Complementary

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



12.6636, 19.6070, 21.8560



10.5680, 5.4383, 0.9451

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.



25.0130, 19.6070, 12.7507



12.6636, 19.6070, 21.8560



25.2275, 19.6070, 31.9833

Square

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



12.6636, 19.6070, 21.8560



18.8122, 19.6070, 47.1300



26.2408, 19.6070, 20.8493



18.4607, 19.6070, 7.2571

Rectangle

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



12.6636, 19.6070, 21.8560



14.7368, 19.6070, 40.3572



26.2408, 19.6070, 20.8493



23.1684, 19.6070, 9.5028

Sweetspot

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



12.6642, 19.6077, 21.8565



31.9820, 39.4010, 45.2918



9.3044, 18.2887, 3.0400



6.9574, 8.7278, 10.0708



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.



12.6642, 19.6077, 21.8565



22.2863, 34.5466, 38.3377



7.8446, 8.3488, 25.2436



5.1498, 5.6794, 6.3099



11.6139, 17.9781, 20.0552



0.0803, 0.1207, 0.1496

Inverse Universe

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



10.5680, 5.4383, 0.9451



18.5961, 9.5726, 1.5020



11.7506, 7.9414, 0.9139



5.0536, 5.0569, 5.3705



9.6919, 4.9869, 0.8821



0.0669, 0.0341, 0.0190

Previews

White Background



This preview shows how the XYZ color 12.6636, 19.6070, 21.8560 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 12.6636, 19.6070, 21.8560 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 12.6636, 19.6070, 21.8560

Background



This preview shows how black text looks on a background with the XYZ color 12.6636, 19.6070, 21.8560.

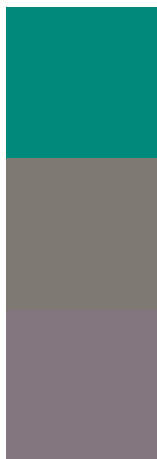


This preview shows how white text looks on a background with the XYZ color 12.6636, 19.6070,

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

12.6636, 19.6070, 21.8560

Protanopia

18.4788, 19.3253, 18.6758

Deuteranopia

19.6693, 19.3145, 22.7701



Tritanopia

14.5798, 19.7783, 30.2433

Trichromacy



Original Color

12.6636, 19.6070, 21.8560

Protanomaly

14.1085, 18.1686, 19.5929

Deuteranomaly

14.6668, 18.0126, 22.4424

Tritanomaly

13.7450, 19.6255, 27.1084

Monochromacy



Original Color

12.6636, 19.6070, 21.8560

Achromatopsia

10.8771, 11.4435, 12.4620

Achromatomaly

10.0977, 13.3495, 15.4091

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.6636, 19.6070, 21.8560 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, 138, 123)` looks like.

```
.text, #text, p{  
    color:rgb(0, 138, 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, 138, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 138, 123) }
```

Border

The CSS property to change the border of an element to XYZ 12.6636, 19.6070, 21.8560 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, 138, 123) }
```


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

```
.border{ border-color:rgb(0, 138, 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, 138, 123) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 138, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 138, 123);  
box-shadow:4px 4px 4px 4px rgb(0, 138,  
123) }
```

Background

The CSS property to change the background color of an element to XYZ 12.6636, 19.6070, 21.8560 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 138, 123) }
```

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

```
.background{ background-color: rgb(0, 138,  
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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