

Converting Colors

XYZ(8.7871, 12.8054, 16.8090)

Have a look what the booklet for
XYZ(8.7871, 12.8054, 16.8090)
contains.

XYZ(8.7746, 12.7997, 16.7600)	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(8.7746, 12.7997,
16.7600)**

Conversions

Conversions Part 1

Format	Color
Hex	0D706E
RGB	13, 112, 110
RGB Percent	5%, 44%, 43%
CMY	0.9490, 0.5608, 0.5686
CMYK	0.88, 0.00, 0.02, 0.56
HSL	179°, 79%, 25%
HSV	179°, 88%, 44%
XYZ	8.7746, 12.7997, 16.7600
YIQ	82.1710, -58.3620, -21.6100

Conversions

Conversions Part 2

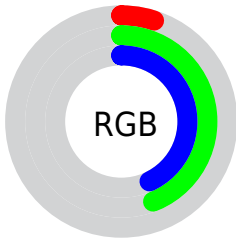
Format	Color
RYB	13, 63, 112
Decimal	880750
CIELab	42.46, -26.00, -6.39
CIELCh	42, 26.778, 193.810
Yxy	12.7997, 0.2289, 0.3339
Android (android.graphics.Color)	4279070830 (0xFF0D706E)
YUV	82.1710, 13.7197, -60.6630
Hunter-Lab	35.7767, -18.8302, -2.7314

Details

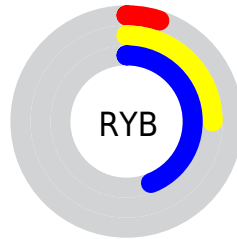
The XYZ color **8.7746, 12.7997, 16.7600** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **6.9126, 3.7674, 0.8151**, and the grayscale version is **8.0367, 8.4552, 9.2077**.

A 20% lighter version of the original color is **23.0167, 30.8296, 38.4558**, and **2.6747, 3.9139, 5.3171** is the 20% darker color. If you saturate the color by 10%, you get **8.6192, 12.7213, 16.6887**, and if you desaturate by 10%, it is **9.0029, 12.9162, 16.8354**.

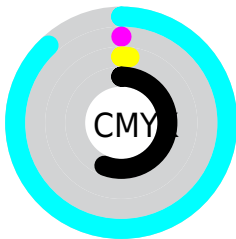
Distribution



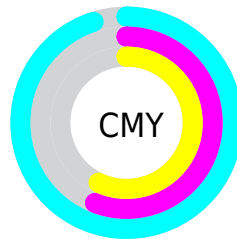
- Red (5%)
- Green (44%)
- Blue (43%)



- Red (5%)
- Yellow (25%)
- Blue (44%)



- Cyan (88%)
- Magenta (0%)
- Yellow (2%)
- Black (56%)



- Cyan (95%)
- Magenta (56%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 8.7746, 12.7997, 16.7600 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 8.7746, 12.7997, 16.7600 by changing the saturation by 10% instead.

■ 8.7746, 12.7997,
16.7600

■ 8.7746, 12.7997,
16.7600

175.9303,
209.6300, 245.7825

■ 4.6504, 7.2908,
9.9034

■ 23.1347, 30.9435,
38.6976

■ 2.0763, 3.6446,
5.2302

■ 34.1013, 44.3471,
54.6158

■ 0.6763, 1.4768,
2.3218

■ 48.0795, 61.1511,
74.3914

■ 0.0000, 0.2723,
0.7434

■ 65.4345, 81.7398,
98.4433

■ 0.0000, 0.0000,
0.0000

■ 86.5317, 106.4976,
127.1897

■ 111.7365,

135.8090, 161.0494

141.4143,
170.0583, 200.4408

■ 8.7746, 12.7997,
16.7600

■ 8.7746, 12.7997,
16.7600

■ 8.6192, 12.7213,
16.6887

■ 9.0029, 12.9162,
16.8354

■ 8.5946, 12.7088,
16.6772

■ 9.3407, 13.0889,
16.9158

■ 9.8003, 13.3245,
17.0021

■ 10.3923, 13.6282,
17.0947

■ 11.1258, 14.0049,
17.1941

■ 12.0093, 14.4589,
17.3007

■ 13.0508, 14.9944,
17.4149

■ 14.2573, 15.6149,
17.5369

■ 15.6358, 16.3241,
17.6672

Harmonies

Analogous

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



8.8082, 12.7997, 11.0634



8.7746, 12.7997, 16.7600



9.5760, 12.7997, 23.1275

Triad

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



8.7746, 12.7997, 16.7600



15.0532, 12.7997, 23.5876



13.2795, 12.7997, 5.7595

Complementary

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



8.7746, 12.7997, 16.7600



6.9126, 3.7674, 0.8151

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.



15.1848, 12.7997, 7.5745



8.7746, 12.7997, 16.7600



16.2836, 12.7997, 17.2689

Square

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



8.7746, 12.7997, 16.7600



13.1153, 12.7997, 27.7458



16.3342, 12.7997, 11.4497



11.2632, 12.7997, 5.6935

Rectangle

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



8.7746, 12.7997, 16.7600



10.5330, 12.7997, 26.4694



16.3342, 12.7997, 11.4497



13.9591, 12.7997, 6.1566

Sweetspot

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



8.7750, 12.8002, 16.7603



21.2121, 25.4593, 30.4054



6.0860, 11.7307, 2.3245



4.9933, 6.0636, 7.2929



55.7959, 58.7016, 63.9261



6.5000, 6.8385, 7.4471

Same Dimension

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



8.7750, 12.8002, 16.7603



15.0925, 22.3233, 29.2671



5.0276, 5.1291, 16.0548



3.4722, 3.8141, 4.2928



9.9345, 14.6913, 19.2738



49.4476, 73.1677, 95.7973

Inverse Universe

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



6.9126, 3.7674, 0.8151



11.7549, 6.0580, 0.6341



8.3295, 6.6230, 1.2204



3.3870, 3.4025, 3.5646



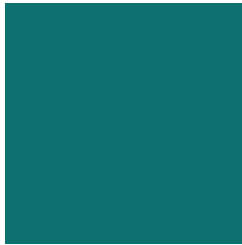
7.7382, 3.9877, 0.4314



38.5087, 19.8488, 1.9451

Previews

White Background



This preview shows how the XYZ color 8.7746, 12.7997, 16.7600 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 8.7746, 12.7997, 16.7600 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

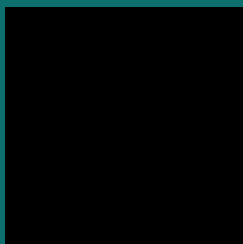
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 8.7746, 12.7997, 16.7600

Background



This preview shows how black text looks on a background with the XYZ color 8.7746, 12.7997, 16.7600.

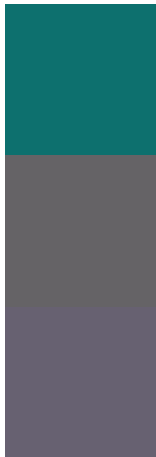


This preview shows how white text looks on a background with the XYZ color 8.7746, 12.7997,

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

8.7746, 12.7997, 16.7600

Protanopia

12.2269, 12.6497, 14.3676

Deuteranopia

12.8488, 12.6252, 17.3825



Tritanopia

9.4755, 12.9316, 19.7659

Trichromacy



Original Color

8.7746, 12.7997, 16.7600

Protanomaly

9.9544, 12.1858, 15.1920

Deuteranomaly

10.2018, 11.9747, 17.1029

Tritanomaly

9.1461, 12.7893, 18.5095

Monochromacy



Original Color

8.7746, 12.7997, 16.7600

Achromatopsia

8.0200, 8.4376, 9.1886

Achromatomaly

7.5335, 9.4713, 11.5563

CSS Examples

Text

The CSS property to change the color of the text to XYZ 8.7746, 12.7997, 16.7600 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(13, 112, 110)` looks like.

```
.text, #text, p{  
    color:rgb(13, 112, 110)  
}
```

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(13, 112, 110) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 112, 110) }
```

Border

The CSS property to change the border of an element to XYZ 8.7746, 12.7997, 16.7600 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(13, 112, 110) }
```


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

```
.border{ border-color:rgb(13, 112, 110) }
```

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

Here you see how a box with a 4 pixel `rgb(13, 112, 110)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 112, 110); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 112, 110);  
box-shadow:4px 4px 4px 4px rgb(13, 112,  
110) }
```

Background

The CSS property to change the background color of an element to XYZ 8.7746, 12.7997, 16.7600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 112, 110) }
```

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

```
.background{ background-color: rgb(13, 112,  
110) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor