

Converting Colors

XYZ(12.1914, 16.0138, 27.2601)

Have a look what the booklet for
XYZ(12.1914, 16.0138, 27.2601)
contains.

XYZ(12.2286, 16.0885, 27.2718)	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(12.2286, 16.0885,
27.2718)**

Conversions

Conversions Part 1

Format	Color
Hex	1E7A8C
RGB	30, 122, 140
RGB Percent	12%, 48%, 55%
CMY	0.8823, 0.5216, 0.4510
CMYK	0.79, 0.13, 0.00, 0.45
HSL	190°, 65%, 33%
HSV	190°, 79%, 55%
XYZ	12.2286, 16.0885, 27.2718
YIQ	96.5440, -60.6100, -13.9060

Conversions

Conversions Part 2

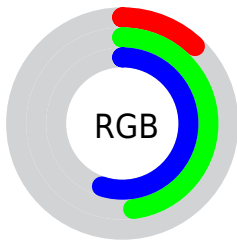
Format	Color
R_{YB}	30, 80, 140
Decimal	1997452
CIE _{Lab}	47.09, -19.53, -17.29
CIE _{LCh}	47, 26.083, 221.532
Yxy	16.0885, 0.2200, 0.2894
Android (android.graphics.Color)	4280187532 (0xFF1E7A8C)
YUV	96.5440, 21.4238, -58.3591
Hunter-Lab	40.1105, -15.7735, -12.2350

Details

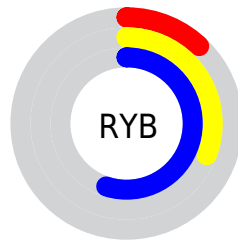
The XYZ color **12.2286, 16.0885, 27.2718** is a dark color, and the websafe version is hex **006666**. A complement of this color would be **12.1072, 7.7840, 2.0933**, and the grayscale version is **11.2114, 11.7953, 12.8451**.

A 20% lighter version of the original color is **29.6837, 36.9347, 56.6035**, and **4.2280, 5.5033, 10.5123** is the 20% darker color. If you saturate the color by 10%, you get **11.6292, 15.3671, 27.1645**, and if you desaturate by 10%, it is **13.0172, 16.9179, 27.3906**.

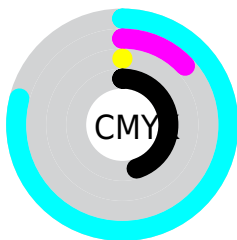
Distribution



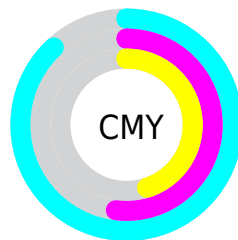
- Red (12%)
- Green (48%)
- Blue (55%)



- Red (12%)
- Yellow (31%)
- Blue (55%)



- Cyan (79%)
- Magenta (13%)
- Yellow (0%)
- Black (45%)



- Cyan (88%)
- Magenta (52%)
- Yellow (45%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2286, 16.0885, 27.2718 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 12.2286, 16.0885, 27.2718 by changing the saturation by 10% instead.

■ 12.2286, 16.0885,
27.2718

■ 12.2286, 16.0885,
27.2718

■ 199.6520,
229.8634, 302.7724

■ 6.9729, 9.5868,
17.5432

■ 29.5240, 36.7518,
56.3287

■ 3.4913, 5.1259,
10.4565

■ 42.2944, 51.6821,
76.4942

■ 1.4186, 2.3213,
5.5931

■ 58.3005, 70.1909,
100.9757

■ 0.2694, 0.7849,
2.5345

■ 77.9074, 92.6623,
130.1917

■ 0.0000, 0.0000,
0.8584

■ 101.4807,
119.4809, 164.5609

■ 0.0000, 0.0000,
0.0000

■ 129.3857,

151.0310, 204.5017

161.9877,
187.6970, 250.4327

■ 12.2286, 16.0885,
27.2718

■ 12.2286, 16.0885,
27.2718

■ 11.6292, 15.3671,
27.1645

■ 13.0172, 16.9179,
27.3906

■ 11.1691, 14.7270,
27.0652

■ 14.0149, 17.8647,
27.5208

■ 11.1055, 14.6371,
27.0512

■ 15.2407, 18.9391,
27.6636

■ 16.7110, 20.1495,
27.8197

■ 18.4406, 21.5038,
27.9900

■ 20.4432, 23.0089,
28.1749

■ 22.7314, 24.6716,
28.3752

■ 25.3172, 26.4979,
28.5915

■ 28.2117, 28.4937,
28.8242

Harmonies

Analogous

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



11.3728, 16.0885, 20.1596



12.2286, 16.0885, 27.2718



13.9397, 16.0885, 32.3949

Triad

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



12.2286, 16.0885, 27.2718



19.8564, 16.0885, 21.8205



14.4288, 16.0885, 7.8442

Complementary

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



12.2286, 16.0885, 27.2718



12.1072, 7.7840, 2.0933

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.



16.7283, 16.0885, 8.0774



12.2286, 16.0885, 27.2718



20.0208, 16.0885, 15.1172

Square

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



12.2286, 16.0885, 27.2718



18.3986, 16.0885, 28.7457



18.8277, 16.0885, 10.4203



12.5558, 16.0885, 9.6762

Rectangle

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



12.2286, 16.0885, 27.2718



15.4096, 16.0885, 33.3756



18.8277, 16.0885, 10.4203



15.1743, 16.0885, 7.6988

Sweetspot

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



12.2291, 16.0891, 27.2722



33.8848, 38.9560, 49.4763



10.4172, 19.2339, 5.8011



7.5590, 8.7875, 11.3772



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



12.2291, 16.0891, 27.2722



19.9058, 26.2564, 47.7618



7.3673, 6.3655, 25.6516



5.1044, 5.5517, 6.4084



9.8797, 13.0297, 24.0399



0.0742, 0.1038, 0.1626

Inverse Universe

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



14.7928, 7.9098, 19.1599



24.9522, 12.3725, 31.2967



15.7526, 15.0749, 3.3085



5.1993, 5.1152, 6.1380



12.4736, 6.0996, 15.5302



0.0872, 0.0423, 0.1260

Previews

White Background



This preview shows how the XYZ color 12.2286, 16.0885, 27.2718 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 12.2286, 16.0885, 27.2718 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

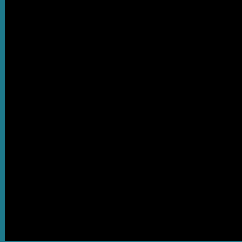
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2286, 16.0885, 27.2718

Background



This preview shows how black text looks on a background with the XYZ color 12.2286, 16.0885, 27.2718.

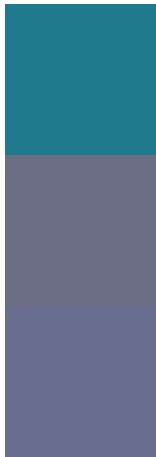


This preview shows how white text looks on a background with the XYZ color 12.2286, 16.0885,

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

12.2286, 16.0885, 27.2718

Protanopia

15.8042, 15.9436, 24.0742

Deuteranopia

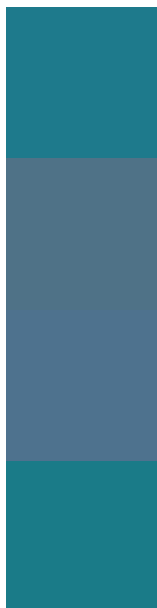
16.2523, 15.9237, 28.2036



Tritanopia

11.6699, 16.0415, 24.6716

Trichromacy



Original Color

12.2286, 16.0885, 27.2718

Protanomaly

13.6149, 15.4462, 25.1855

Deuteranomaly

14.0417, 15.6073, 27.8636

Tritanomaly

11.9529, 16.1631, 25.7824

Monochromacy



Original Color

12.2286, 16.0885, 27.2718

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

10.8823, 12.9168, 17.5424

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2286, 16.0885, 27.2718 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(30, 122, 140)` looks like.

```
.text, #text, p{  
    color:rgb(30, 122, 140)  
}
```

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(30, 122, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(30, 122, 140) }
```

Border

The CSS property to change the border of an element to XYZ 12.2286, 16.0885, 27.2718 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(30, 122, 140) }
```


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

```
.border{ border-color:rgb(30, 122, 140) }
```

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

Here you see how a box with a 4 pixel `rgb(30, 122, 140)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(30, 122, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(30, 122, 140);  
box-shadow:4px 4px 4px 4px rgb(30, 122,  
140) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2286, 16.0885, 27.2718 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(30, 122, 140) }
```

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

```
.background{ background-color: rgb(30, 122,  
140) }
```

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