

Converting Colors

XYZ(4.8381, 13.1644, 29.6836)

Have a look what the booklet for
XYZ(4.8381, 13.1644, 29.6836)
contains.

XYZ(12.7777, 17.2541, 29.8510)	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(12.7777, 17.2541,
29.8510)**

Conversions

Conversions Part 1

Format	Color
Hex	007F92
RGB	0, 127, 146
RGB Percent	0%, 50%, 57%
CMY	0.9999, 0.5020, 0.4274
CMYK	1.00, 0.13, 0.00, 0.43
HSL	188°, 100%, 29%
HSV	188°, 100%, 57%
XYZ	12.7777, 17.2541, 29.8510
YIQ	91.1930, -81.7910, -21.0150

Conversions

Conversions Part 2

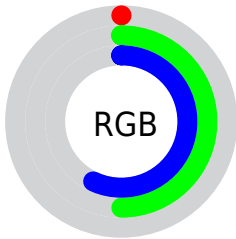
Format	Color
RYB	0, 68, 146
Decimal	32658
CIELab	48.58, -22.22, -18.58
CIELCh	49, 28.965, 219.910
Yxy	17.2541, 0.2134, 0.2881
Android (android.graphics.Color)	4278222738 (0xFF007F92)
YUV	91.1930, 27.0199, -79.9763
Hunter-Lab	41.5381, -17.7824, -13.5317

Details

The XYZ color **12.7777, 17.2541, 29.8510** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **12.0876, 6.5776, 0.6332**, and the grayscale version is **9.9434, 10.4612, 11.3922**.

A 20% lighter version of the original color is **30.4929, 38.7439, 60.5148**, and **4.7899, 6.2750, 11.7852** is the 20% darker color. If you saturate the color by 10%, you get **12.7776, 17.2538, 29.8513**, and if you desaturate by 10%, it is **13.2166, 17.8485, 29.9429**.

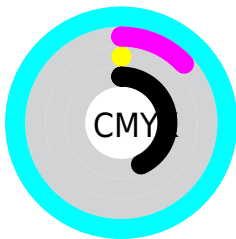
Distribution



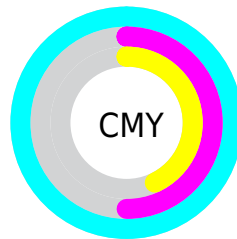
- Red (0%)
- Green (50%)
- Blue (57%)



- Red (0%)
- Yellow (27%)
- Blue (57%)



- Cyan (100%)
- Magenta (13%)
- Yellow (0%)
- Black (43%)



- Cyan (100%)
- Magenta (50%)
- Yellow (43%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7777, 17.2541, 29.8510 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 12.7777, 17.2541, 29.8510 by changing the saturation by 10% instead.

■ 12.7777, 17.2541,
29.8510

■ 12.7777, 17.2541,
29.8510

■ 203.1545,
236.6325, 315.3950

■ 7.3516, 10.4158,
19.4744

■ 30.5086, 38.7621,
60.4847

■ 3.7312, 5.6755,
11.8333

■ 43.5440, 54.2007,
81.5789

■ 1.5512, 2.6488,
6.5091

■ 59.8466, 73.2748,
107.0827

■ 0.3603, 0.9513,
3.0833

■ 79.7818, 96.3689,
137.4147

■ 0.0000, 0.0000,
1.1373

■ 103.7148,
123.8673, 172.9933

■ 0.0000, 0.0000,
0.0000

■ 132.0110,

156.1544, 214.2373

165.0358,
193.6147, 261.5649

■ 12.7777, 17.2541,
29.8510

■ 12.7777, 17.2541,
29.8510

■ 12.7776, 17.2538,
29.8513

■ 13.2166, 17.8485,
29.9429

■ 13.7912, 18.5193,
30.0421

■ 14.5663, 19.3006,
30.1521

■ 15.5666, 20.2049,
30.2739

■ 16.8129, 21.2430,
30.4086

■ 18.3237, 22.4245,
30.5570

■ 20.1157, 23.7581,
30.7200

■ 22.2041, 25.2516,
30.8982

■ 24.6032, 26.9124,
31.0923

Harmonies

Analogous

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



11.8557, 17.2541, 21.4248



12.7777, 17.2541, 29.8510



14.7031, 17.2541, 36.1946

Triad

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



12.7777, 17.2541, 29.8510



21.6927, 17.2541, 24.2864



15.5341, 17.2541, 7.7288

Complementary

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



12.7777, 17.2541, 29.8510



12.0876, 6.5776, 0.6332

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.



18.2216, 17.2541, 8.1072



12.7777, 17.2541, 29.8510



21.9772, 17.2541, 16.3747

Square

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



12.7777, 17.2541, 29.8510



19.9083, 17.2541, 32.4265



20.6482, 17.2541, 10.8627



13.3293, 17.2541, 9.6353

Rectangle

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



12.7777, 17.2541, 29.8510



16.3915, 17.2541, 37.5935



20.6482, 17.2541, 10.8627



16.4075, 17.2541, 7.6084

Sweetspot

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



12.7783, 17.2547, 29.8514



35.2741, 41.7569, 54.1743



10.3809, 20.5988, 3.9614



7.5731, 9.0875, 12.0271



69.3244, 72.9347, 79.4259



10.7221, 11.2805, 12.2844

Same Dimension

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



12.7783, 17.2547, 29.8514



22.4534, 30.2625, 52.6314



6.6019, 4.9020, 27.7926



5.9004, 6.4348, 7.4008



11.2556, 15.2060, 26.2729



0.1522, 0.2150, 0.3264

Inverse Universe

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



15.6853, 7.6439, 20.7280



27.6255, 13.4659, 36.3318



15.5141, 13.4306, 1.7754



6.0032, 5.8963, 7.1229



13.8084, 6.7284, 18.2698



0.1763, 0.0853, 0.2619

Previews

White Background



This preview shows how the XYZ color 12.7777, 17.2541, 29.8510 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 12.7777, 17.2541, 29.8510 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

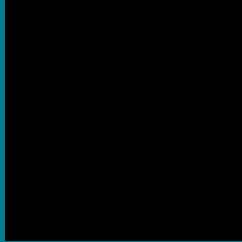
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7777, 17.2541, 29.8510

Background



This preview shows how black text looks on a background with the XYZ color 12.7777, 17.2541, 29.8510.

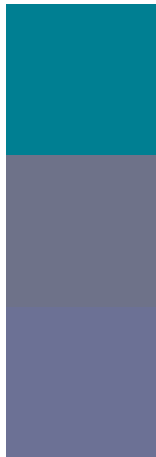


This preview shows how white text looks on a background with the XYZ color 12.7777, 17.2541,

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

12.7777, 17.2541, 29.8510

Protanopia

16.9631, 17.1558, 26.0843

Deuteranopia

17.5143, 17.1683, 30.8245



Tritanopia

12.3066, 17.2733, 26.7302

Trichromacy



Original Color

12.7777, 17.2541, 29.8510

Protanomaly

13.8562, 16.3892, 27.2441

Deuteranomaly

14.2780, 16.3602, 30.4223

Tritanomaly

12.5269, 17.3614, 27.8902

Monochromacy



Original Color

12.7777, 17.2541, 29.8510

Achromatopsia

9.9438, 10.4616, 11.3927

Achromatomaly

9.5645, 11.9479, 16.8410

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7777, 17.2541, 29.8510 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, 127, 146)` looks like.

```
.text, #text, p{  
  color:rgb(0, 127, 146)  
}
```

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, 127, 146) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 127, 146) }
```

Border

The CSS property to change the border of an element to XYZ 12.7777, 17.2541, 29.8510 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, 127, 146) }
```


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

```
.border{ border-color:rgb(0, 127, 146) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 127, 146)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 127, 146); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 127, 146);  
box-shadow:4px 4px 4px 4px rgb(0, 127,  
146) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7777, 17.2541, 29.8510 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 127, 146) }
```

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

```
.background{ background-color: rgb(0, 127,  
146) }
```

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