

# Converting Colors

XYZ(13.4457, 25.0015, 30.8363)

Have a look what the booklet for  
XYZ(13.4457, 25.0015, 30.8363)  
contains.

<b>XYZ(17.6816, 27.1859, 31.1036)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(17.6816, 27.1859,  
31.1036)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00A091
RGB	0, 160, 145
RGB Percent	0%, 63%, 57%
CMY	0.9999, 0.3725, 0.4314
CMYK	1.00, 0.00, 0.09, 0.37
HSL	174°, 100%, 31%
HSV	174°, 100%, 63%
XYZ	17.6816, 27.1859, 31.1036
YIQ	110.4500, -90.5450, -38.5850

# Conversions

## Conversions Part 2

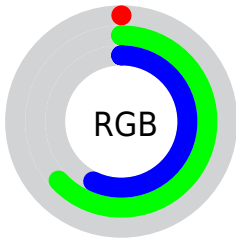
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 84, 160
Decimal	41105
CIELab	59.15, -38.48, -2.16
CIElCh	59, 38.537, 183.208
Yxy	27.1859, 0.2327, 0.3578
Android (android.graphics.Color)	4278231185 (0xFF00A091)
YUV	110.4500, 17.0332, -96.8646
Hunter-Lab	52.1401, -30.7128, 1.1293

# Details

The XYZ color **17.6816, 27.1859, 31.1036** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **14.5842, 7.5088, 1.1333**, and the grayscale version is **14.9235, 15.7006, 17.0980**.

A 20% lighter version of the original color is **38.9236, 54.9485, 62.5875**, and **7.3233, 11.3416, 12.6296** is the 20% darker color. If you saturate the color by 10%, you get **17.6820, 27.1868, 31.1035**, and if you desaturate by 10%, it is **18.0127, 27.3437, 31.7277**.

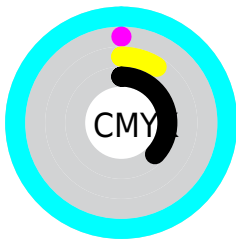
# Distribution



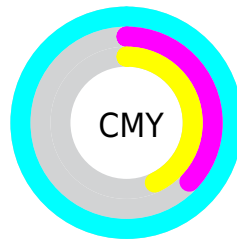
- Red (0%)
- Green (63%)
- Blue (57%)



- Red (0%)
- Yellow (33%)
- Blue (63%)



- Cyan (100%)
- Magenta (0%)
- Yellow (9%)
- Black (37%)



- Cyan (100%)
- Magenta (37%)
- Yellow (43%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 17.6816, 27.1859, 31.1036 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 17.6816, 27.1859, 31.1036 by changing the saturation by 10% instead.



■ 17.6816, 27.1859,  
31.1036

■ 17.6816, 27.1859,  
31.1036

■ 232.1507,  
288.5561, 321.3813

■ 10.8199, 17.7129,  
20.4186

■ 39.0284, 55.1820,  
62.4846

■ 6.0123, 10.7441,  
12.5126

■ 54.2442, 74.4739,  
84.0178

■ 2.8933, 5.8950,  
6.9670

■ 72.9755, 97.8076,  
110.0040

■ 1.0976, 2.7813,  
3.3634

■ 95.5875, 125.5674,  
140.8620

■ 0.0231, 1.0187,  
1.2830

■ 122.4457,  
158.1378, 177.0101

■ 0.0000, 0.0000,  
0.0478

■ 153.9154,

■ 0.0000, 0.0000,

195.9031, 218.8670

0.0000

190.3619,  
239.2477, 266.8512

■ 17.6816, 27.1859,  
31.1036

■ 17.6816, 27.1859,  
31.1036

■ 17.6820, 27.1868,  
31.1035

■ 18.0127, 27.3437,  
31.7277

■ 18.5129, 27.5880,  
32.3670

■ 19.2561, 27.9573,  
33.0258

■ 20.2730, 28.4675,  
33.7055

■ 21.5899, 29.1323,  
34.4073

■ 23.2302, 29.9635,  
35.1323

■ 25.2147, 30.9720,  
35.8817

■ 27.5625, 32.1677,  
36.6562

■ 30.2915, 33.5596,  
37.4567

# Harmonies

## Analogous

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



18.4501, 27.1859, 19.2198



17.6816, 27.1859, 31.1036



18.8655, 27.1859, 46.5513

# Triad

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



17.6816, 27.1859, 31.1036



31.2268, 27.1859, 57.6566



30.2235, 27.1859, 11.7291

# Complementary

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



17.6816, 27.1859, 31.1036



14.5842, 7.5088, 1.1333

# 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.



34.3496, 27.1859, 17.3634



17.6816, 27.1859, 31.1036



34.9774, 27.1859, 43.1744

# Square

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



17.6816, 27.1859, 31.1036



26.3589, 27.1859, 64.5798



36.1849, 27.1859, 28.1472



25.3267, 27.1859, 10.2854



# Rectangle

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



17.6816, 27.1859, 31.1036



20.7000, 27.1859, 56.1913



36.1849, 27.1859, 28.1472



31.7660, 27.1859, 13.0869

# Sweetspot

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



17.6824, 27.1869, 31.1042



45.5505, 56.1172, 65.0672



12.7853, 25.2528, 4.2010



9.6646, 12.1419, 14.1515



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



17.6824, 27.1869, 31.1042



32.0640, 49.3456, 56.2602



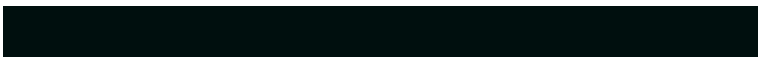
10.5293, 10.9056, 34.8088



6.7950, 7.4988, 8.3552



13.7822, 21.1808, 24.2740



0.2534, 0.3815, 0.4710



# Inverse Universe

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



14.5842, 7.5088, 1.1333



26.4456, 13.6190, 1.8785



16.3319, 11.1420, 1.2904



6.6571, 6.6557, 7.0453



11.3683, 5.8519, 0.9244



0.2098, 0.1072, 0.0508



# Previews

## White Background



This preview shows how the XYZ color 17.6816, 27.1859, 31.1036 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 17.6816, 27.1859, 31.1036 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

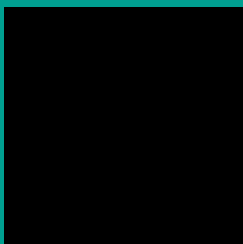
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

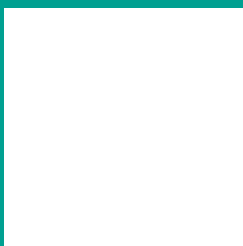
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 17.6816, 27.1859, 31.1036**

## **Background**



This preview shows how black text looks on a background with the XYZ color 17.6816, 27.1859, 31.1036.



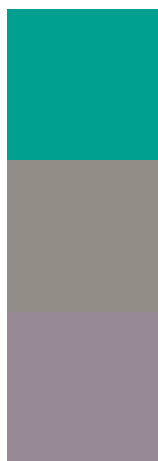
This preview shows how white text looks on a background with the XYZ color 17.6816, 27.1859,



# 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

17.6816, 27.1859, 31.1036

### Protanopia

25.6820, 26.8820, 26.3894

### Deuteranopia

27.2132, 26.6726, 32.5682



## Tritanopia

19.9250, 27.0926, 41.7154

# Trichromacy



## Original Color

17.6816, 27.1859, 31.1036

## Protanomaly

19.6916, 25.3419, 27.8984

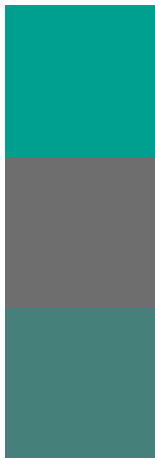
## Deuteranomaly

20.2946, 24.8757, 31.7488

## Tritanomaly

18.8030, 26.8587, 37.4509

# Monochromacy



## Original Color

17.6816, 27.1859, 31.1036

## Achromatopsia

14.8208, 15.5926, 16.9804

## Achromatomaly

13.8201, 18.1705, 21.5178

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 17.6816, 27.1859, 31.1036 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, 160, 145)` looks like.

```
.text, #text, p{  
    color:rgb(0, 160, 145)  
}
```

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, 160, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 160, 145) }
```

## Border

The CSS property to change the border of an element to XYZ 17.6816, 27.1859, 31.1036 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, 160, 145) }
```



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

```
.border{ border-color:rgb(0, 160, 145) }
```

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

Here you see how a box with a 4 pixel rgb(0, 160, 145) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 160, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 160, 145);  
box-shadow:4px 4px 4px 4px rgb(0, 160,  
145) }
```

# Background

The CSS property to change the background color of an element to XYZ 17.6816, 27.1859, 31.1036 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 160, 145) }
```

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

```
.background{ background-color: rgb(0, 160,  
145) }
```

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