

# Converting Colors

XYZ(27.9398, 40.7892, 55.8351)

Have a look what the booklet for  
XYZ(27.9398, 40.7892, 55.8351)  
contains.

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# Color

**XYZ(27.8174, 40.5885,  
55.6584)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BEBF
RGB	0, 190, 191
RGB Percent	0%, 75%, 75%
CMY	0.9999, 0.2549, 0.2510
CMYK	1.00, 0.01, 0.00, 0.25
HSL	180°, 100%, 37%
HSV	180°, 100%, 75%
XYZ	27.8174, 40.5885, 55.6584
YIQ	133.3040, -113.5610, -39.9690

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 95, 191
Decimal	48831
CIELab	69.89, -38.23, -11.83
CIELCh	70, 40.023, 197.198
Yxy	40.5885, 0.2242, 0.3272
Android (android.graphics.Color)	4278238911 (0xFF00BEBF)
YUV	133.3040, 28.4441, -116.9076
Hunter-Lab	63.7091, -33.5522, -7.2013

# Details

The XYZ color **27.8174, 40.5885, 55.6584** is a dark color, and the websafe version is hex **33CCCC**. A complement of this color would be **21.4976, 11.0991, 1.0104**, and the grayscale version is **22.3389, 23.5022, 25.5939**.

A 20% lighter version of the original color is **55.5288, 76.0617, 99.7504**, and **13.3916, 19.4433, 27.0919** is the 20% darker color. If you saturate the color by 10%, you get **27.8181, 40.5897, 55.6593**, and if you desaturate by 10%, it is **28.1111, 40.7729, 55.6793**.

# Distribution



- Red (0%)
- Green (75%)
- Blue (75%)



- Red (0%)
- Yellow (37%)
- Blue (75%)



- Cyan (100%)
- Magenta (1%)
- Yellow (0%)
- Black (25%)




- Cyan (100%)
- Magenta (25%)
- Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.8174, 40.5885, 55.6584 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 27.8174, 40.5885, 55.6584 by changing the saturation by 10% instead.





 27.8174, 40.5885,  
55.6584


 27.8174, 40.5885,  
55.6584


283.6893,  
348.5978, 425.7550


 18.3278, 27.9977,  
39.5270


 55.6035, 76.0588,  
99.9857


 11.2867, 18.3239,  
26.8589


 74.6306, 99.7071,  
129.0187

 6.3287, 11.1828,  
17.2358


 97.5677, 127.8101,  
163.1893

 3.0885, 6.1899,  
10.2390

 124.7801,  
160.7520, 202.9160

 1.2008, 2.9609,  
5.4501

 156.6331,  
198.9174, 248.6174

 0.1070, 1.1114,  
2.4503

193.4920,

 0.0000, 0.0000,

242.6905, 300.7120

0.8137

235.7223,  
292.4559, 359.6183

■ 0.0000, 0.0000,  
0.0000

■ 27.8174, 40.5885,  
55.6584

■ 27.8174, 40.5885,  
55.6584

■ 27.8181, 40.5897,  
55.6593

■ 28.1111, 40.7729,  
55.6793

■ 28.6696, 41.0930,  
55.7116

■ 29.5898, 41.5995,  
55.7609

■ 30.9202, 42.3176,  
55.8294

■ 32.7019, 43.2683,  
55.9190

■ 34.9710, 44.4702,  
56.0314

■ 37.7598, 45.9402,  
56.1681

■ 41.0981, 47.6934,  
56.3306

■ 45.0133, 49.7441,  
56.5200

# Harmonies

## Analogous

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



27.6181, 40.5885, 36.7199



27.8174, 40.5885, 55.6584



30.6858, 40.5885, 76.0438

# Triad

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



27.8174, 40.5885, 55.6584



48.5058, 40.5885, 73.2869



41.4176, 40.5885, 17.6514

# Complementary

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



27.8174, 40.5885, 55.6584



21.4976, 11.0991, 1.0104

# 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.



47.7195, 40.5885, 22.7716



27.8174, 40.5885, 55.6584



52.1107, 40.5885, 52.6191

# Square

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



27.8174, 40.5885, 55.6584



42.3972, 40.5885, 88.0246



51.8078, 40.5885, 34.4230



34.9956, 40.5885, 18.0400



# Rectangle

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



27.8174, 40.5885, 55.6584



33.9294, 40.5885, 86.1413



51.8078, 40.5885, 34.4230



43.6332, 40.5885, 18.7075

# Sweetspot

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



27.8186, 40.5900, 55.6594



67.3574, 82.1361, 100.5829



18.6317, 37.2625, 6.2115



14.3016, 17.7786, 22.0631



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



27.8186, 40.5900, 55.6594



49.8156, 72.6831, 99.6828



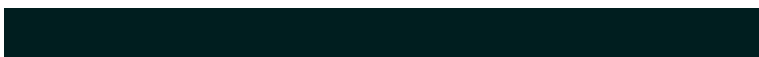
13.5437, 12.0402, 50.9011



9.8042, 10.8008, 12.2402



18.2834, 26.6786, 36.5788



0.7176, 1.0478, 1.4333



# Inverse Universe

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



30.7811, 14.7952, 49.9502



55.1246, 26.4952, 89.4431



25.6255, 19.3549, 2.3863



9.9278, 9.6954, 12.0087



20.2294, 9.7229, 32.8313

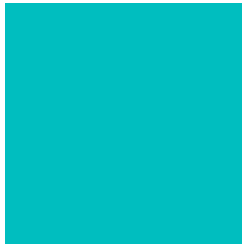


0.7931, 0.3811, 1.2897



# Previews

## White Background



This preview shows how the XYZ color 27.8174, 40.5885, 55.6584 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

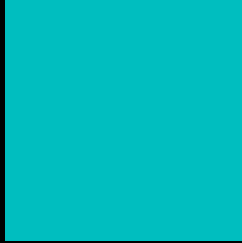
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 27.8174, 40.5885, 55.6584 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

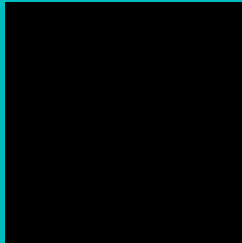
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

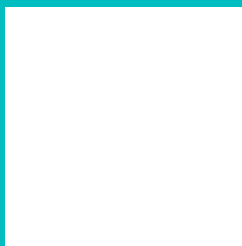
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 27.8174, 40.5885, 55.6584**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.8174, 40.5885, 55.6584.



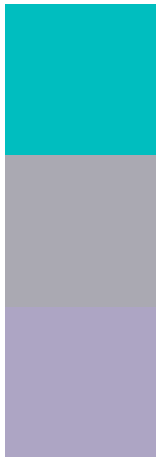
This preview shows how white text looks on a background with the XYZ color 27.8174, 40.5885,



# 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

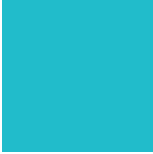
27.8174, 40.5885, 55.6584

### Protanopia

38.8014, 40.1363, 47.8215

### Deuteranopia

40.6525, 39.7800, 57.7602



## **Tritanopia**

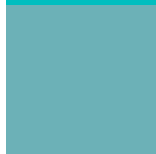
29.3899, 40.6016, 62.7878

# Trichromacy



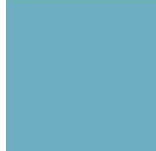
## Original Color

27.8174, 40.5885, 55.6584



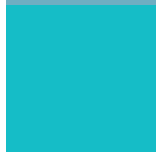
## Protanomaly

30.4537, 38.0513, 50.5393



## Deuteranomaly

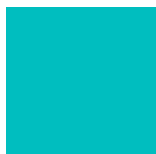
31.3041, 37.4821, 56.6238



## Tritanomaly

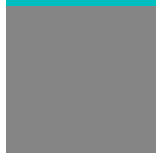
28.8157, 40.6781, 60.3658

# Monochromacy



## Original Color

27.8174, 40.5885, 55.6584



## Achromatopsia

22.2940, 23.4551, 25.5426



## Achromatomaly

21.1346, 27.3756, 34.7420

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.8174, 40.5885, 55.6584 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, 190, 191)` looks like.

```
.text, #text, p{  
  color:rgb(0, 190, 191)  
}
```

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, 190, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 190, 191) }
```

## Border

The CSS property to change the border of an element to XYZ 27.8174, 40.5885, 55.6584 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, 190, 191) }
```



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

```
.border{ border-color:rgb(0, 190, 191) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 190, 191)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 190, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 190, 191);  
box-shadow:4px 4px 4px 4px rgb(0, 190,  
191) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.8174, 40.5885, 55.6584 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 190, 191) }
```

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

```
.background{ background-color: rgb(0, 190,  
191) }
```

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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