

# Converting Colors

XYZ(27.1102, 44.9252, 36.4751)

Have a look what the booklet for  
XYZ(27.1102, 44.9252, 36.4751)  
contains.

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# Color

**XYZ(27.1913, 45.0748,  
36.5453)**

# Conversions

## Conversions Part 1

Format	Color
Hex	12CB97
RGB	18, 203, 151
RGB Percent	7%, 80%, 59%
CMY	0.9293, 0.2039, 0.4078
CMYK	0.91, 0.00, 0.26, 0.20
HSL	163°, 84%, 43%
HSV	163°, 91%, 80%
XYZ	27.1913, 45.0748, 36.5453
YIQ	141.7570, -93.5680, -55.3920

# Conversions

## Conversions Part 2

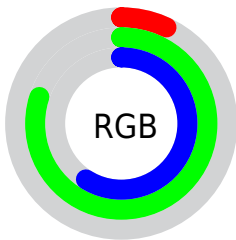
Format	Color
<b>RYB</b>	18, 126, 203
Decimal	1231767
CIELab	72.94, -53.91, 14.36
CIELCh	73, 55.787, 165.088
Yxy	45.0748, 0.2499, 0.4142
Android (android.graphics.Color)	4279421847 (0xFF12CB97)
YUV	141.7570, 4.5568, -108.5349
Hunter-Lab	67.1378, -45.1973, 14.7229

# Details

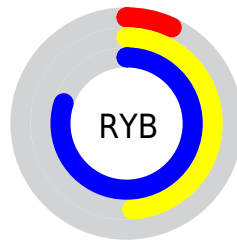
The XYZ color **27.1913, 45.0748, 36.5453** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **25.9521, 13.5726, 7.0494**, and the grayscale version is **25.6267, 26.9613, 29.3609**.

A 20% lighter version of the original color is **52.6051, 78.9310, 70.2202**, and **12.8902, 22.0999, 15.6429** is the 20% darker color. If you saturate the color by 10%, you get **26.5401, 44.7867, 34.4143**, and if you desaturate by 10%, it is **28.2287, 45.5559, 39.0733**.

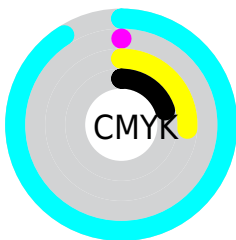
# Distribution



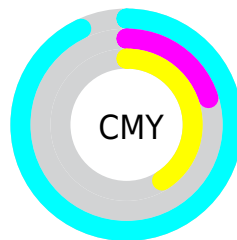
- Red (7%)
- Green (80%)
- Blue (59%)



- Red (7%)
- Yellow (49%)
- Blue (80%)



- Cyan (91%)
- Magenta (0%)
- Yellow (26%)
- Black (20%)




- Cyan (93%)
- Magenta (20%)
- Yellow (41%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 27.1913, 45.0748, 36.5453 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 27.1913, 45.0748, 36.5453 by changing the saturation by 10% instead.





 27.1913, 45.0748,  
36.5453


 27.1913, 45.0748,  
36.5453


280.7329,  
367.0764, 346.4469


 17.8543, 31.5163,  
24.5626


 54.6084, 82.8326,  
71.0514


 10.9445, 20.9923,  
15.5354


 73.4192, 107.8008,  
94.4119


 6.0965, 13.1184,  
9.0452


 96.1187, 137.3410,  
122.4020

 2.9451, 7.5101,  
4.6735

 123.0721,  
171.8377, 155.4404

 1.1248, 3.7831,  
2.0016

 154.6449,  
211.6751, 193.9456

 0.0457, 1.5530,  
0.5563

191.2024,

 0.0000, 0.3256,

257.2378, 238.3360

0.0000

233.1099,  
308.9101, 289.0303

■ 0.0000, 0.0000,  
0.0000

■ 27.1913, 45.0748,  
36.5453

■ 27.1913, 45.0748,  
36.5453

■ 26.5401, 44.7867,  
34.4143

■ 28.2287, 45.5559,  
39.0733

■ 29.6963, 46.2550,  
41.7391

■ 31.6535, 47.2038,  
44.5482

■ 34.1494, 48.4276,  
47.5043

■ 37.2267, 49.9485,  
50.6110

■ 40.9239, 51.7861,  
53.8715

■ 45.2760, 53.9586,  
57.2890

■ 50.3154, 56.4825,  
60.8664

■ 56.0724, 59.3735,  
64.6066

# Harmonies

## Analogous

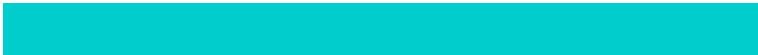
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



30.9149, 45.0748, 20.1432



27.1913, 45.0748, 36.5453



27.2023, 45.0748, 64.3842

# Triad

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



27.1913, 45.0748, 36.5453



47.8976, 45.0748, 121.0896



57.4500, 45.0748, 20.0787

# Complementary

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



27.1913, 45.0748, 36.5453



25.9521, 13.5726, 7.0494

# 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.



63.5566, 45.0748, 36.4142



27.1913, 45.0748, 36.5453



57.4997, 45.0748, 97.4408

# Square

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



27.1913, 45.0748, 36.5453



38.2074, 45.0748, 121.1677



63.5761, 45.0748, 64.1930



47.8375, 45.0748, 13.3823



# Rectangle

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



27.1913, 45.0748, 36.5453



29.2881, 45.0748, 86.7577



63.5761, 45.0748, 64.1930



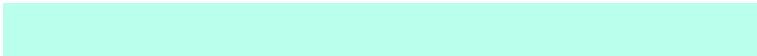
60.0410, 45.0748, 24.2782

# Sweetspot

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



27.1925, 45.0766, 36.5464



71.1350, 88.0134, 92.3262



24.0229, 44.0752, 7.8142



14.7108, 18.5817, 19.3437



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



27.1925, 45.0766, 36.5464



44.3403, 74.9521, 57.1031



24.1131, 30.6077, 61.1389



11.4035, 12.6712, 13.6824



16.9300, 28.5173, 22.1140



0.9048, 1.4837, 1.3060



# Inverse Universe

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



25.9521, 13.5726, 7.0494



42.3994, 21.7238, 8.0352



26.2568, 15.7766, 2.2343



11.3398, 11.2647, 12.3240



16.1785, 8.2820, 3.3925

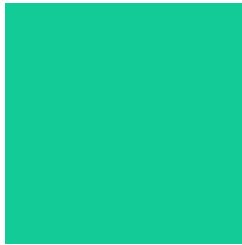


0.8676, 0.4404, 0.3484



# Previews

## White Background



This preview shows how the XYZ color 27.1913, 45.0748, 36.5453 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 27.1913, 45.0748, 36.5453 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

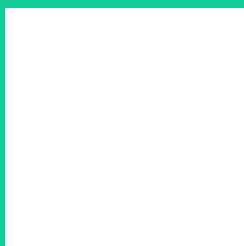
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 27.1913, 45.0748, 36.5453**

## **Background**



This preview shows how black text looks on a background with the XYZ color 27.1913, 45.0748, 36.5453.



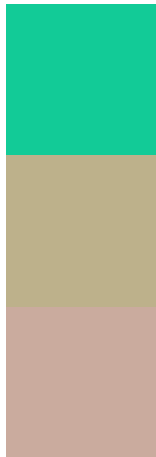
This preview shows how white text looks on a background with the XYZ color 27.1913, 45.0748,



# 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

27.1913, 45.0748, 36.5453

### Protanopia

41.3686, 44.1272, 30.7631

### Deuteranopia

45.0916, 44.1510, 38.4932



## Tritanopia

33.5877, 44.9267, 68.5295

# Trichromacy



## Original Color

27.1913, 45.0748, 36.5453



## Protanomaly

31.2692, 41.6130, 32.3707



## Deuteranomaly

32.8416, 41.3844, 37.2674



## Tritanomaly

30.6460, 44.7153, 55.1598

# Monochromacy



## Original Color

27.1913, 45.0748, 36.5453



## Achromatopsia

25.7108, 27.0498, 29.4572



## Achromatomaly

23.3161, 31.1366, 31.5692

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 27.1913, 45.0748, 36.5453 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(18, 203, 151)` looks like.

```
.text, #text, p{  
  color:rgb(18, 203, 151)  
}
```

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(18, 203, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 203, 151) }
```

## Border

The CSS property to change the border of an element to XYZ 27.1913, 45.0748, 36.5453 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(18, 203, 151) }
```



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

```
.border{ border-color:rgb(18, 203, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 203, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 203, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 203, 151);  
box-shadow:4px 4px 4px 4px rgb(18, 203,  
151) }
```

# Background

The CSS property to change the background color of an element to XYZ 27.1913, 45.0748, 36.5453 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 203, 151) }
```

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

```
.background{ background-color: rgb(18, 203,  
151) }
```

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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