

# Converting Colors

XYZ(42.5677, 68.2701, 63.3662)

Have a look what the booklet for  
XYZ(42.5677, 68.2701, 63.3662)  
contains.

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# Color

**XYZ(42.5795, 68.3780,  
63.1787)**

# Conversions

## Conversions Part 1

Format	Color
Hex	1FF3C4
RGB	31, 243, 196
RGB Percent	12%, 95%, 77%
CMY	0.8784, 0.0470, 0.2314
CMYK	0.87, 0.00, 0.19, 0.05
HSL	167°, 90%, 54%
HSV	167°, 87%, 95%
XYZ	42.5795, 68.3780, 63.1787
YIQ	174.2540, -111.2650, -59.5610

# Conversions

## Conversions Part 2

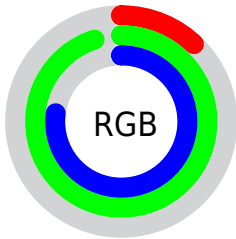
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	31, 150, 243
Decimal	2094020
CIE <sub>Lab</sub>	86.20, -57.91, 9.38
CIE <sub>LCh</sub>	86, 58.670, 170.796
Yxy	68.3780, 0.2445, 0.3927
Android (android.graphics.Color)	4280284100 (0xFF1FF3C4)
YUV	174.2540, 10.7208, -125.6338
Hunter-Lab	82.6910, -52.7955, 12.5841

# Details

The XYZ color **42.5795, 68.3780, 63.1787** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **38.8298, 20.5867, 9.1386**, and the grayscale version is **40.3539, 42.4555, 46.2340**.

A 20% lighter version of the original color is **61.2354, 82.6049, 105.6454**, and **22.4414, 37.0708, 31.5638** is the 20% darker color. If you saturate the color by 10%, you get **41.4974, 67.8914, 59.9851**, and if you desaturate by 10%, it is **44.2334, 69.1601, 66.5171**.

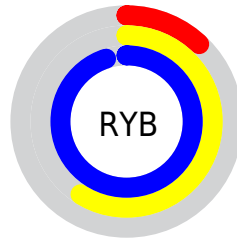
# Distribution



Red (12%)

Green (95%)

Blue (77%)



Red (12%)

Yellow (59%)

Blue (95%)

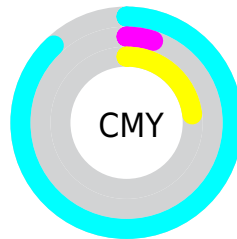


Cyan (87%)

Magenta (0%)

Yellow (19%)

Black (5%)



Cyan (88%)

Magenta (5%)


Yellow (23%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.5795, 68.3780, 63.1787 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 42.5795, 68.3780, 63.1787 by changing the saturation by 10% instead.





 42.5795, 68.3780,  
63.1787


 42.5795, 68.3780,  
63.1787


347.8305,  
454.8341, 454.3435


 29.7484, 50.2053,  
45.5439


 78.3356, 116.8927,  
111.0153

 19.7948, 35.5766,  
31.5400


 101.9913,  
148.0036, 142.0542


 12.3534, 24.1073,  
20.7485


 129.9860,  
184.1959, 178.3982

 7.0587, 15.4133,  
12.7508

 162.6849,  
225.8542, 220.4658

 3.5455, 9.1099,  
7.1285

 200.4535,  
273.3627, 268.6756

 1.4484, 4.8130,  
3.4629

243.6570,

 0.2903, 2.1379,

327.1060, 323.4462

1.3356

292.6609,  
387.4683, 385.1959

■ 0.0000, 0.6858,  
0.0907

■ 0.0000, 0.0000,  
0.0000

■ 42.5795, 68.3780,  
63.1787

■ 42.5795, 68.3780,  
63.1787

■ 41.4974, 67.8914,  
59.9851


■ 44.2334, 69.1601,  
66.5171


■ 41.2506, 67.7830,  
59.1243


■ 46.5633, 70.2865,  
70.0017


■ 49.6559, 71.8035,  
73.6394


■ 53.5835, 73.7483,  
77.4346

 58.4097, 76.1537,  
81.3914

 64.1918, 79.0493,  
85.5137

 70.9824, 82.4620,  
89.8049

 78.8302, 86.4171,  
94.2684

 87.7807, 90.9378,  
98.9074

# Harmonies

## Analogous

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



46.8735, 68.3780, 36.6425



42.5795, 68.3780, 63.1787



43.6118, 68.3780, 104.1022

# Triad

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



42.5795, 68.3780, 63.1787



74.6541, 68.3780, 167.8671



82.8262, 68.3780, 30.4120

# Complementary

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



42.5795, 68.3780, 63.1787



38.8298, 20.5867, 9.1386

# 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.



92.4163, 68.3780, 51.0452



42.5795, 68.3780, 63.1787



87.2628, 68.3780, 132.0494

# Square

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



42.5795, 68.3780, 63.1787



60.9255, 68.3780, 174.6413



94.1436, 68.3780, 86.9924



69.2340, 68.3780, 22.5241



# Rectangle

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



42.5795, 68.3780, 63.1787



47.2476, 68.3780, 134.3830



94.1436, 68.3780, 86.9924



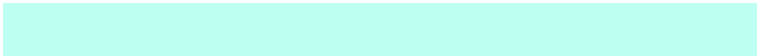
86.6994, 68.3780, 35.6644

# Sweetspot

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



42.5814, 68.3807, 63.1803



72.4447, 88.6096, 95.9569



35.6484, 65.9290, 12.1443



14.9902, 18.7073, 20.1907



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.



42.5814, 68.3807, 63.1803



46.0063, 75.6185, 65.8763



34.4029, 42.0809, 91.1062



16.8302, 18.6912, 20.3903



22.6918, 37.2216, 32.7267



2.0322, 3.2865, 3.0756



# Inverse Universe

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



38.8298, 20.5867, 9.1386



41.9671, 21.5508, 5.7587



40.6637, 26.0598, 4.1844



16.6495, 16.5427, 17.9011



20.6912, 10.6199, 3.0822

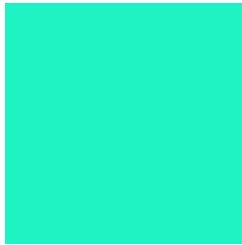


1.8556, 0.9482, 0.4661



# Previews

## White Background



This preview shows how the XYZ color 42.5795, 68.3780, 63.1787 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 42.5795, 68.3780, 63.1787 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

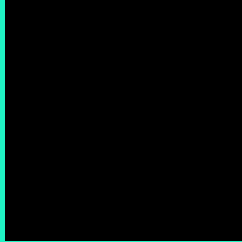
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

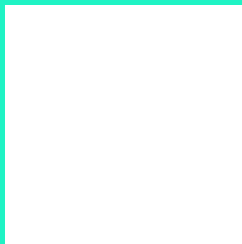
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.5795, 68.3780, 63.1787**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.5795, 68.3780, 63.1787.



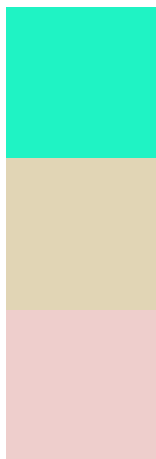
This preview shows how white text looks on a background with the XYZ color 42.5795, 68.3780,



# 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

42.5795, 68.3780, 63.1787

### Protanopia

63.1861, 66.9322, 53.3050

### Deuteranopia

68.2303, 66.6794, 66.4010



## Tritanopia

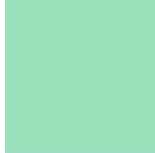
50.7396, 68.1921, 104.2541

# Trichromacy



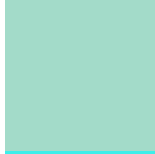
## Original Color

42.5795, 68.3780, 63.1787



## Protanomaly

48.8450, 63.7265, 56.1804



## Deuteranomaly

50.9784, 62.6666, 64.6674



## Tritanomaly

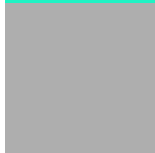
47.2070, 68.0244, 87.7327

# Monochromacy



## Original Color

42.5795, 68.3780, 63.1787



## Achromatopsia

40.2316, 42.3268, 46.0938



## Achromatomaly

36.8930, 48.3618, 51.6463

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.5795, 68.3780, 63.1787 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(31, 243, 196)` looks like.

```
.text, #text, p{  
    color:rgb(31, 243, 196)  
}
```

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(31, 243, 196) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 243, 196) }
```

## Border

The CSS property to change the border of an element to XYZ 42.5795, 68.3780, 63.1787 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(31, 243, 196) }
```



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

```
.border{ border-color:rgb(31, 243, 196) }
```

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

Here you see how a box with a 4 pixel rgb(31, 243, 196) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 243, 196); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 243, 196);  
box-shadow:4px 4px 4px 4px rgb(31, 243,  
196) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.5795, 68.3780, 63.1787 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 243, 196) }
```

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

```
.background{ background-color: rgb(31, 243,  
196) }
```

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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