

# Converting Colors

XYZ(28.0233, 39.8714, 21.5545)

Have a look what the booklet for  
XYZ(28.0233, 39.8714, 21.5545)  
contains.

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# Color

**XYZ(28.0193, 39.8608,  
21.5464)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	78B970
RGB	120, 185, 112
RGB Percent	47%, 73%, 44%
CMY	0.5294, 0.2745, 0.5608
CMYK	0.35, 0.00, 0.39, 0.27
HSL	113°, 34%, 58%
HSV	113°, 39%, 73%
XYZ	28.0193, 39.8608, 21.5464
YIQ	157.2430, -15.3070, -36.4830

# Conversions

## Conversions Part 2

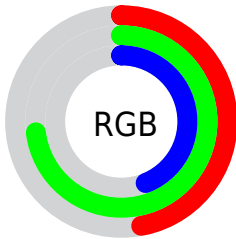
Format	Color
<b>RYB</b>	112, 185, 177
Decimal	7911792
CIELab	69.37, -35.21, 30.64
CIElCh	69, 46.674, 138.964
Yxy	39.8608, 0.3133, 0.4457
Android (android.graphics.Color)	4286101872 (0xFF78B970)
YUV	157.2430, -22.3048, -32.6621
Hunter-Lab	63.1354, -31.2692, 23.9607

# Details

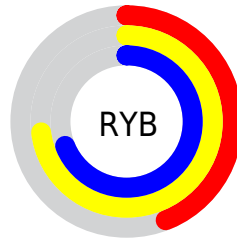
The XYZ color **28.0193, 39.8608, 21.5464** is a dark color, and the websafe version is hex **99CC99**. A complement of this color would be **32.6844, 24.4395, 48.8956**, and the grayscale version is **32.2604, 33.9404, 36.9611**.

A 20% lighter version of the original color is **55.9260, 74.7412, 47.0762**, and **11.3282, 17.7848, 7.5384** is the 20% darker color. If you saturate the color by 10%, you get **25.0020, 38.4136, 16.5697**, and if you desaturate by 10%, it is **31.6433, 41.5987, 27.6580**.

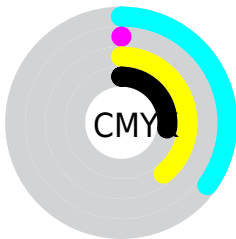
# Distribution



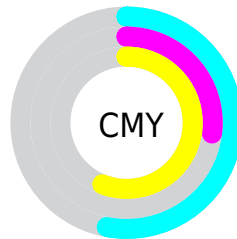
- Red (47%)
- Green (73%)
- Blue (44%)



- Red (44%)
- Yellow (73%)
- Blue (69%)



- Cyan (35%)
- Magenta (0%)
- Yellow (39%)
- Black (27%)



- Cyan (53%)
- Magenta (27%)
- Yellow (56%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.0193, 39.8608, 21.5464 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 28.0193, 39.8608, 21.5464 by changing the saturation by 10% instead.



■ 28.0193, 39.8608,  
21.5464

■ 28.0193, 39.8608,  
21.5464

284.6375,  
345.5365, 273.0440

■ 18.4807, 27.4300,  
13.3289

■ 55.9237, 74.9515,  
46.8877

■ 11.3975, 17.8964,  
7.5220

■ 75.0202, 98.3802,  
64.8485

■ 6.4041, 10.8757,  
3.7073

■ 98.0334, 126.2437,  
86.8942

■ 3.1353, 5.9833,  
1.4662

■ 125.3287,  
158.9264, 113.4432

■ 1.2257, 2.8349,  
0.1925

157.2714,  
196.8126, 144.9142

■ 0.1265, 1.0462,  
0.0000

194.2269,

■ 0.0000, 0.0000,

240.2867, 181.7256

0.0000

236.5605,  
289.7333, 224.2960

■ 28.0193, 39.8608,  
21.5464

■ 28.0193, 39.8608,  
21.5464

■ 25.0020, 38.4136,  
16.5697

■ 31.6433, 41.5987,  
27.6580

■ 22.5553, 37.2363,  
12.6554

■ 35.9017, 43.6367,  
34.9655

■ 20.6437, 36.3137,  
9.7272


■ 40.8240, 45.9898,  
43.5289


■ 19.2267, 35.6267,  
7.6971


■ 46.4370, 48.6706,  
53.4033


■ 18.2575, 35.1534,  
6.4617


■ 52.7661, 51.6912,  
64.6406


 17.6679, 34.8629,  
5.8267

 59.8352, 55.0628,  
77.2897

 17.6438, 34.8510,  
5.7970

 67.6673, 58.7963,  
91.3973

 75.4677, 62.5753,  
102.7084

 76.6397, 63.1795,  
102.7632

# Harmonies

## Analogous

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



33.3919, 39.8608, 14.8938



28.0193, 39.8608, 21.5464



25.4250, 39.8608, 35.9682

# Triad

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



28.0193, 39.8608, 21.5464



35.1933, 39.8608, 97.8475



53.2215, 39.8608, 31.3192

# Complementary

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



28.0193, 39.8608, 21.5464



32.6844, 24.4395, 48.8956

# 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.



53.8712, 39.8608, 51.7946



28.0193, 39.8608, 21.5464



42.7673, 39.8608, 95.3290

# Square

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



28.0193, 39.8608, 21.5464



29.1879, 39.8608, 82.5883



49.8345, 39.8608, 76.5435



48.1615, 39.8608, 19.1133



# Rectangle

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



28.0193, 39.8608, 21.5464



25.3557, 39.8608, 50.1581



49.8345, 39.8608, 76.5435



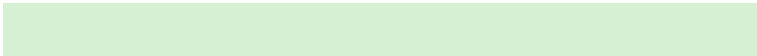
53.9857, 39.8608, 37.2809

# Sweetspot

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



28.0203, 39.8625, 21.5473



70.5788, 81.1529, 73.5301



38.5542, 42.7266, 21.5449



14.9653, 17.3754, 15.4157



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

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



28.0203, 39.8625, 21.5473



45.6171, 69.1992, 31.0452



28.7647, 40.0374, 31.0175



8.9793, 10.1060, 9.5843



12.0450, 23.7457, 3.9486



0.4549, 0.8527, 0.1406



# Inverse Universe

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



32.6844, 24.4395, 48.8956



55.0694, 37.8517, 86.6082



31.8904, 24.3386, 34.9242



9.2814, 9.1114, 11.3489



16.5280, 7.8317, 31.8936



0.6105, 0.2905, 1.1256



# Previews

## White Background



This preview shows how the XYZ color 28.0193, 39.8608, 21.5464 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 28.0193, 39.8608, 21.5464 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 28.0193, 39.8608, 21.5464

## Background



This preview shows how black text looks on a background with the XYZ color 28.0193, 39.8608, 21.5464.



This preview shows how white text looks on a background with the XYZ color 28.0193, 39.8608,



# 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

28.0193, 39.8608, 21.5464

### Protanopia

36.5567, 39.6069, 19.3538

### Deuteranopia

40.0431, 39.1916, 22.2839



## Tritanopia

34.6511, 39.8367, 54.5781

# Trichromacy



**Original Color**

28.0193, 39.8608, 21.5464

**Protanomaly**

32.7347, 39.3197, 20.0515

**Deuteranomaly**

34.4825, 38.7579, 21.8833

**Tritanomaly**

31.6949, 39.5160, 40.1393

# Monochromacy



**Original Color**

28.0193, 39.8608, 21.5464

**Achromatopsia**

32.0474, 33.7164, 36.7171

**Achromatomaly**

30.1280, 35.4898, 30.4616

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.0193, 39.8608, 21.5464 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(120, 185, 112)` looks like.

```
.text, #text, p{  
    color:rgb(120, 185, 112)  
}
```

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(120, 185, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 185, 112) }
```

## Border

The CSS property to change the border of an element to XYZ 28.0193, 39.8608, 21.5464 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(120, 185, 112) }
```



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

```
.border{ border-color:rgb(120, 185, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 185, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(120, 185, 112); -webkit-box-shadow:4px 4px 4px 4px rgb(120, 185, 112); box-shadow:4px 4px 4px 4px rgb(120, 185, 112) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.0193, 39.8608, 21.5464 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 185, 112) }
```

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

```
.background{ background-color: rgb(120,  
185, 112) }
```

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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