

# Converting Colors

XYZ(16.1567, 35.0730, 4.7923)

Have a look what the booklet for  
XYZ(16.1567, 35.0730, 4.7923)  
contains.

<b>XYZ(17.9832, 35.9664, 5.9944)</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(17.9832, 35.9664,  
5.9944)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00BC00
RGB	0, 188, 0
RGB Percent	0%, 74%, 0%
CMY	1.0000, 0.2627, 0.9999
CMYK	1.00, 0.00, 1.00, 0.26
HSL	120°, 100%, 37%
HSV	120°, 100%, 74%
XYZ	17.9832, 35.9664, 5.9944
YIQ	110.3560, -51.7000, -98.3240

# Conversions

## Conversions Part 2

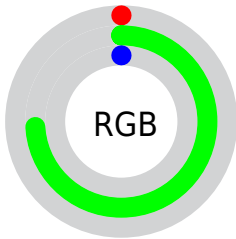
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 188, 188
Decimal	48128
CIELab	66.49, -68.54, 66.15
CIELCh	66, 95.251, 136.016
Yxy	35.9664, 0.3000, 0.6000
Android (android.graphics.Color)	4278238208 (0xFF00BC00)
YUV	110.3560, -54.4055, -96.7822
Hunter-Lab	59.9720, -51.4260, 36.0542

# Details

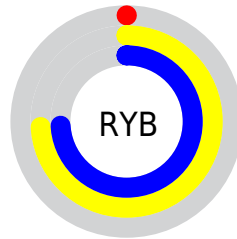
The XYZ color **17.9832, 35.9664, 5.9944** is a dark color, and the websafe version is hex **33CC00**. A complement of this color would be **29.8152, 14.3219, 48.7606**, and the grayscale version is **15.0872, 15.8729, 17.2856**.

A 20% lighter version of the original color is **39.6977, 69.2283, 18.4778**, and **8.3875, 16.7751, 2.7958** is the 20% darker color. If you saturate the color by 10%, you get **17.9840, 35.9679, 5.9952**, and if you desaturate by 10%, it is **18.3646, 36.1507, 6.6179**.

# Distribution



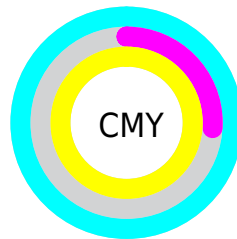
- Red (0%)
- Green (74%)
- Blue (0%)



- Red (0%)
- Yellow (74%)
- Blue (74%)



- Cyan (100%)
- Magenta (0%)
- Yellow (100%)
- Black (26%)




- Cyan (100%)
- Magenta (26%)
- Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 17.9832, 35.9664, 5.9944 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 17.9832, 35.9664, 5.9944 by changing the saturation by 10% instead.





 17.9832, 35.9664,  
5.9944


 17.9832, 35.9664,  
5.9944


233.8237,  
328.8137, 168.3255


 11.0375, 24.4082,  
2.7729


 39.5390, 68.9802,  
18.3967


 6.1596, 15.6367,  
0.9799


 54.8799, 91.2046,  
28.4147

 2.9839, 9.2675,  
0.0000


 73.7498, 117.7533,  
41.5352

 1.1453, 4.9161,  
0.0000

 96.5143, 149.0106,  
58.1769

 0.0625, 2.1981,  
0.0000

 123.5385,  
185.3608, 78.7582

 0.0000, 0.7190,  
0.0000

 155.1879,

 0.0000, 0.0000,

227.1885, 103.6977

0.0000

191.8279,  
274.8780, 133.4140

■ 17.9832, 35.9664,  
5.9944

■ 17.9832, 35.9664,  
5.9944

■ 17.9840, 35.9679,  
5.9952

■ 18.3646, 36.1507,  
6.6179

■ 19.1123, 36.5098,  
7.8412

■ 20.3613, 37.1098,  
9.8846

■ 22.1787, 37.9828,  
12.8574

■ 24.6211, 39.1560,  
16.8526

■ 27.7385, 40.6534,  
21.9516

■ 31.5757, 42.4966,  
28.2280

■ 36.1737, 44.7053,  
35.7485

■ 41.5704, 47.2976,  
44.5754

# Harmonies

## Analogous

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



27.1517, 35.9664, 1.7714



17.9832, 35.9664, 5.9944



13.8561, 35.9664, 23.0596

# Triad

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



17.9832, 35.9664, 5.9944



27.9668, 35.9664, 175.8667



67.9730, 35.9664, 21.2176

# Complementary

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



17.9832, 35.9664, 5.9944



29.8152, 14.3219, 48.7606

# 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.



68.3725, 35.9664, 61.4167



17.9832, 35.9664, 5.9944



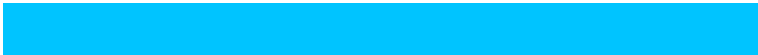
42.3386, 35.9664, 173.9085

# Square

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



17.9832, 35.9664, 5.9944



18.4359, 35.9664, 127.4329



58.0068, 35.9664, 123.1496



57.0323, 35.9664, 5.4474

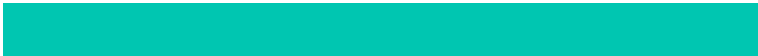


# Rectangle

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



17.9832, 35.9664, 5.9944



13.4962, 35.9664, 47.9994



58.0068, 35.9664, 123.1496



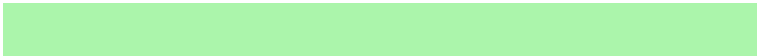
69.4302, 35.9664, 31.4807

# Sweetspot

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



17.9840, 35.9679, 5.9952



56.8508, 76.8366, 50.5467



38.7238, 46.6596, 6.9653



11.5656, 16.2064, 9.7905



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



17.9840, 35.9679, 5.9952



32.5921, 65.1839, 10.8647



20.0044, 36.7760, 16.6342



9.4089, 10.6497, 10.1365



12.2440, 24.4879, 4.0818



0.4796, 0.9592, 0.1600



# Inverse Universe

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



29.8152, 14.3219, 48.7606



54.0334, 25.9553, 88.3676



22.7603, 11.5000, 11.6102



9.9300, 9.6963, 12.0202



20.2990, 9.7507, 33.1976

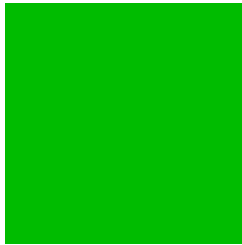


0.7951, 0.3819, 1.3005



# Previews

## White Background



This preview shows how the XYZ color 17.9832, 35.9664, 5.9944 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

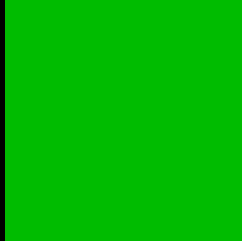
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 17.9832, 35.9664, 5.9944 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

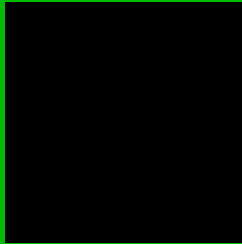
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 17.9832, 35.9664, 5.9944**

## **Background**



This preview shows how black text looks on a background with the XYZ color 17.9832, 35.9664, 5.9944.



This preview shows how white text looks on a background with the XYZ color 17.9832, 35.9664,



# 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

17.9832, 35.9664, 5.9944

### Protanopia

31.8009, 35.3135, 5.1401

### Deuteranopia

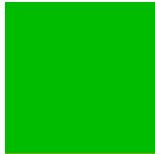
35.9856, 35.1731, 6.9903



## Tritanopia

27.7397, 35.9963, 53.6301

# Trichromacy



## Original Color

17.9832, 35.9664, 5.9944



## Protanomaly

21.6331, 32.7707, 5.1852



## Deuteranomaly

22.6948, 31.6520, 5.8906



## Tritanomaly

21.0268, 34.6767, 23.3543

# Monochromacy



## Original Color

17.9832, 35.9664, 5.9944



## Achromatopsia

14.8208, 15.5926, 16.9804



## Achromatomaly

12.7198, 19.9212, 8.9691

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 17.9832, 35.9664, 5.9944 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, 188, 0)` looks like.

```
.text, #text, p{  
    color:rgb(0, 188, 0)  
}
```

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, 188, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 188, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 17.9832, 35.9664, 5.9944 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, 188, 0) }
```



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

```
.border{ border-color:rgb(0, 188, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 188, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 188, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 188, 0); box-shadow:4px  
4px 4px 4px rgb(0, 188, 0) }
```

# Background

The CSS property to change the background color of an element to XYZ 17.9832, 35.9664, 5.9944 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 188, 0) }
```

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

```
.background{ background-color: rgb(0, 188,  
0) }
```

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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