

# Converting Colors

XYZ(20.1409, 39.9977, 6.9431)

Have a look what the booklet for  
XYZ(20.1409, 39.9977, 6.9431)  
contains.

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# Color

**XYZ(20.1591, 40.0256,  
6.9504)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0BC50A
RGB	11, 197, 10
RGB Percent	4%, 77%, 4%
CMY	0.9569, 0.2274, 0.9607
CMYK	0.94, 0.00, 0.95, 0.23
HSL	120°, 90%, 41%
HSV	120°, 95%, 77%
XYZ	20.1591, 40.0256, 6.9504
YIQ	120.0680, -50.8290, -97.5890

# Conversions

## Conversions Part 2

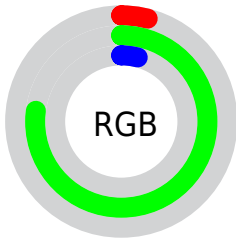
<b>Format</b>	<b>Color</b>
<b>RYB</b>	10, 197, 196
Decimal	771338
CIELab	69.49, -70.30, 67.46
CIELCh	69, 97.433, 136.180
Yxy	40.0256, 0.3003, 0.5962
Android (android.graphics.Color)	4278961418 (0xFF0BC50A)
YUV	120.0680, -54.2635, -95.6526
Hunter-Lab	63.2658, -53.8376, 37.7724

# Details

The XYZ color **20.1591, 40.0256, 6.9504** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **32.9582, 15.9878, 54.1743**, and the grayscale version is **18.0562, 18.9965, 20.6872**.

A 20% lighter version of the original color is **43.1470, 75.1478, 20.4145**, and **9.5249, 19.0498, 3.1750** is the 20% darker color. If you saturate the color by 10%, you get **19.9800, 39.9408, 6.6563**, and if you desaturate by 10%, it is **20.7510, 40.3116, 7.8971**.

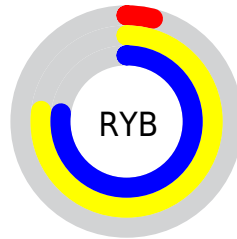
# Distribution



Red (4%)

Green (77%)

Blue (4%)



Red (4%)

Yellow (77%)

Blue (77%)

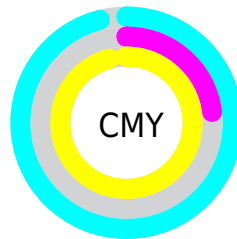


Cyan (94%)

Magenta (0%)

Yellow (95%)

Black (23%)



Cyan (96%)

Magenta (23%)


Yellow (96%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.1591, 40.0256, 6.9504 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 20.1591, 40.0256, 6.9504 by changing the saturation by 10% instead.





 20.1591, 40.0256,  
6.9504


 20.1591, 40.0256,  
6.9504


245.5923,  
346.2315, 176.8662


 12.6197, 27.5585,  
3.3531


 43.1857, 75.2025,  
20.3845

 7.2424, 17.9931,  
1.2776


 59.4035, 98.6811,  
31.0585


 3.6618, 10.9450,  
0.0434


 79.2449, 126.5990,  
44.9284

 1.5126, 6.0299,  
0.0000

 103.0752,  
159.3405, 62.4127

 0.3344, 2.8633,  
0.0000

 131.2597,  
197.2902, 83.9302

 0.0000, 1.0608,  
0.0000

 164.1639,

 0.0000, 0.0000,

240.8323, 109.8992

0.0000

202.1529,  
290.3512, 140.7384

■ 20.1591, 40.0256,  
6.9504

■ 20.1591, 40.0256,  
6.9504

■ 19.9800, 39.9408,  
6.6563

■ 20.7510, 40.3116,  
7.8971

■ 21.8556, 40.8426,  
9.6843

■ 23.5561, 41.6598,  
12.4500

■ 25.9203, 42.7957,  
16.3067

■ 29.0071, 44.2785,  
21.3519

■ 32.8686, 46.1333,  
27.6720

■ 37.5522, 48.3828,  
35.3455

■ 43.1016, 51.0480,  
44.4446

■ 49.5574, 54.1483,  
55.0365

# Harmonies

## Analogous

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



30.2382, 40.0256, 2.1216



20.1591, 40.0256, 6.9504



15.6191, 40.0256, 26.0246

# Triad

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



20.1591, 40.0256, 6.9504



31.2803, 40.0256, 192.9057



75.0086, 40.0256, 23.6613

# Complementary

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



20.1591, 40.0256, 6.9504



32.9582, 15.9878, 54.1743

# 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.



75.5157, 40.0256, 67.6574



20.1591, 40.0256, 6.9504



47.0873, 40.0256, 190.4323

# Square

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



20.1591, 40.0256, 6.9504



20.7402, 40.0256, 140.4113



64.2354, 40.0256, 134.9910



62.9970, 40.0256, 6.2360



# Rectangle

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



20.1591, 40.0256, 6.9504



15.2366, 40.0256, 53.5633



64.2354, 40.0256, 134.9910



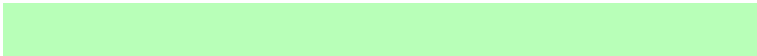
76.6238, 40.0256, 34.9232

# Sweetspot

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



20.1600, 40.0273, 6.9513



64.1309, 85.1511, 58.1836



42.3485, 50.4262, 7.7890



12.9503, 17.8529, 11.1818



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.



20.1600, 40.0273, 6.9513



35.7767, 71.5286, 11.9208



22.4120, 40.9266, 18.8759



10.5025, 11.8905, 11.3043



13.1434, 26.2710, 4.3781



0.6242, 1.2449, 0.2074



# Inverse Universe

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



32.9582, 15.9878, 54.1743



58.7997, 28.2272, 96.9571



25.7701, 13.1421, 14.9864



11.0774, 10.8137, 13.4209



21.5991, 10.3690, 35.6074

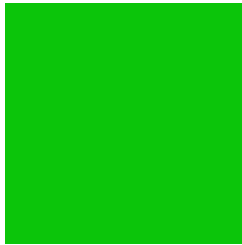


1.0245, 0.4919, 1.6861



# Previews

## White Background



This preview shows how the XYZ color 20.1591, 40.0256, 6.9504 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

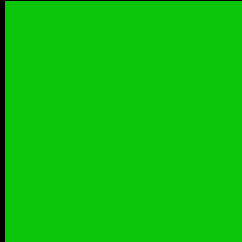
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 20.1591, 40.0256, 6.9504 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 20.1591, 40.0256, 6.9504

## Background



This preview shows how black text looks on a background with the XYZ color 20.1591, 40.0256, 6.9504.



This preview shows how white text looks on a background with the XYZ color 20.1591, 40.0256,



# 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

20.1591, 40.0256, 6.9504

### Protanopia

35.4232, 39.3231, 5.7231

### Deuteranopia

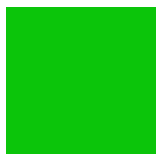
39.8894, 39.1723, 7.8415



## **Tritanopia**

30.6938, 39.7832, 59.4873

# Trichromacy



## Original Color

20.1591, 40.0256, 6.9504



## Protanomaly

24.5995, 36.6089, 5.8846



## Deuteranomaly

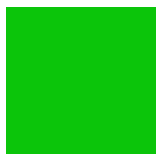
25.6855, 35.3947, 6.8446



## Tritanomaly

23.6998, 38.4480, 27.2912

# Monochromacy



## Original Color

20.1591, 40.0256, 6.9504



## Achromatopsia

17.8524, 18.7821, 20.4537



## Achromatomaly

15.3461, 23.4645, 11.3097

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.1591, 40.0256, 6.9504 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(11, 197, 10)` looks like.

```
.text, #text, p{  
    color:rgb(11, 197, 10)  
}
```

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(11, 197, 10) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(11, 197, 10) }
```

## Border

The CSS property to change the border of an element to XYZ 20.1591, 40.0256, 6.9504 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(11, 197, 10) }
```



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

```
.border{ border-color:rgb(11, 197, 10) }
```

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

Here you see how a box with a 4 pixel rgb(11, 197, 10) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(11, 197, 10); -webkit-box-  
shadow:4px 4px 4px 4px rgb(11, 197, 10);  
box-shadow:4px 4px 4px 4px rgb(11, 197,  
10) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.1591, 40.0256, 6.9504 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(11, 197, 10) }
```

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

```
.background{ background-color: rgb(11, 197,  
10) }
```

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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