

# Converting Colors

XYZ(31.1877, 52.8426, 11.2167)

Have a look what the booklet for  
XYZ(31.1877, 52.8426, 11.2167)  
contains.

<b>XYZ(31.1516, 52.8342, 11.2455)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(31.1516, 52.8342,  
11.2455)**

# Conversions

## Conversions Part 1

Format	Color
Hex	69D92F
RGB	105, 217, 47
RGB Percent	41%, 85%, 18%
CMY	0.5882, 0.1490, 0.8157
CMYK	0.52, 0.00, 0.78, 0.15
HSL	100°, 69%, 52%
HSV	100°, 78%, 85%
XYZ	31.1516, 52.8342, 11.2455
YIQ	164.1320, -12.1820, -76.6140

# Conversions

## Conversions Part 2

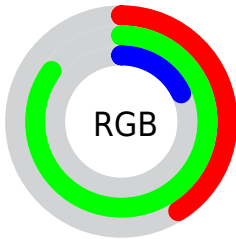
Format	Color
<b>RYB</b>	47, 217, 159
Decimal	6936879
CIELab	77.78, -59.48, 67.85
CIELCh	78, 90.227, 131.238
Yxy	52.8342, 0.3271, 0.5548
Android (android.graphics.Color)	4285126959 (0xFF69D92F)
YUV	164.1320, -57.7461, -51.8588
Hunter-Lab	72.6871, -50.7026, 41.7082

# Details

The XYZ color **31.1516, 52.8342, 11.2455** is a dark color, and the websafe version is hex **66CC00**. The color can be described as dark washed chartreuse. A complement of this color would be **27.8424, 14.4158, 66.9637**, and the grayscale version is **35.6216, 37.4767, 40.8121**.

A 20% lighter version of the original color is **53.8786, 80.5599, 26.3456**, and **13.4046, 25.8298, 4.2792** is the 20% darker color. If you saturate the color by 10%, you get **29.2778, 51.9085, 9.4134**, and if you desaturate by 10%, it is **33.5277, 53.9970, 14.2382**.

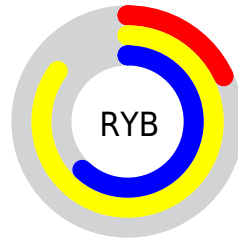
# Distribution



Red (41%)

Green (85%)

Blue (18%)



Red (18%)

Yellow (85%)

Blue (62%)

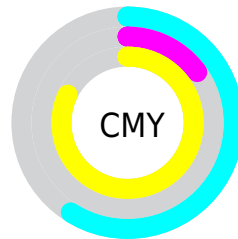


Cyan (52%)

Magenta (0%)

Yellow (78%)

Black (15%)



Cyan (59%)

Magenta (15%)

Yellow (82%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1516, 52.8342, 11.2455 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 31.1516, 52.8342, 11.2455 by changing the saturation by 10% instead.



31.1516, 52.8342,  
11.2455

31.1516, 52.8342,  
11.2455

299.0506,  
397.6487, 210.1417

20.8667, 37.6704,  
6.1160

60.8529, 94.3604,  
28.7568

13.1385, 25.7270,  
2.8458

81.0000, 121.4915,  
41.9757

7.6017, 16.6195,  
1.0164

105.1652,  
153.3806, 58.7280

3.8908, 9.9636,  
0.0000

133.7139,  
190.4120, 79.4325

1.6405, 5.3748,  
0.0000

167.0115,  
232.9701, 104.5075

0.4186, 2.4688,  
0.0000

205.4232,

0.0000, 0.8610,

281.4394, 134.3717

0.0000

249.3144,  
336.2041, 169.4436

■ 0.0000, 0.0000,  
0.0000

■ 31.1516, 52.8342,  
11.2455

■ 31.1516, 52.8342,  
11.2455

■ 29.2778, 51.9085,  
9.4134

■ 33.5277, 53.9970,  
14.2382

■ 27.8464, 51.1889,  
8.5164


■ 36.4439, 55.4082,  
18.5383


■ 27.6401, 51.0849,  
8.4036


■ 39.9379, 57.0861,  
24.2748


■ 44.0427, 59.0452,  
31.5602

■ 48.7883, 61.2987,  
40.4957

 54.2027, 63.8592,  
51.1742

 60.3122, 66.7383,  
63.6815

 67.1414, 69.9469,  
78.0976

 74.7140, 73.4955,  
94.4982

# Harmonies

## Analogous

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



43.9444, 52.8342, 5.3355



31.1516, 52.8342, 11.2455



24.6317, 52.8342, 31.7787

# Triad

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



31.1516, 52.8342, 11.2455



40.1594, 52.8342, 205.3909



90.9491, 52.8342, 40.7250

# Complementary

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



31.1516, 52.8342, 11.2455



27.8424, 14.4158, 66.9637

# 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.



89.2628, 52.8342, 94.3956



31.1516, 52.8342, 11.2455



57.0605, 52.8342, 213.1261

# Square

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



31.1516, 52.8342, 11.2455



28.9369, 52.8342, 147.2315



75.8067, 52.8342, 164.5907



79.9870, 52.8342, 14.5316



# Rectangle

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



31.1516, 52.8342, 11.2455



23.5417, 52.8342, 59.6342



75.8067, 52.8342, 164.5907



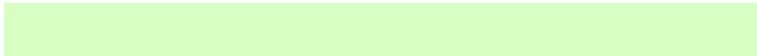
91.8988, 52.8342, 55.4709

# Sweetspot

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



31.1528, 52.8365, 11.2467



73.4048, 89.8043, 64.3864



41.2725, 39.2430, 8.0895



15.1314, 18.9471, 12.6501



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.



31.1528, 52.8365, 11.2467



40.7856, 74.1006, 12.6165



27.1729, 50.7070, 14.5733



13.3032, 14.8210, 13.8852



16.8331, 30.9753, 5.0916



1.1810, 2.0534, 0.3341



# Inverse Universe

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



27.8424, 14.4158, 66.9637



35.5096, 16.4807, 95.9173



39.0930, 20.5699, 51.4919



13.1606, 13.0409, 16.4756



14.5533, 6.6267, 40.2504

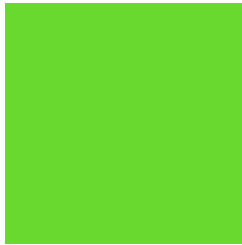


1.0337, 0.4761, 2.6119



# Previews

## White Background



This preview shows how the XYZ color 31.1516, 52.8342, 11.2455 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 31.1516, 52.8342, 11.2455 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 31.1516, 52.8342, 11.2455**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.1516, 52.8342, 11.2455.



This preview shows how white text looks on a background with the XYZ color 31.1516, 52.8342,



# 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

31.1516, 52.8342, 11.2455

### Protanopia

47.0381, 51.8619, 9.5387

### Deuteranopia

53.0177, 51.7574, 11.8985



## Tritanopia

43.6069, 52.3713, 74.1400

# Trichromacy



## Original Color

31.1516, 52.8342, 11.2455



## Protanomaly

38.7695, 50.5969, 10.0083



## Deuteranomaly

41.2655, 49.8261, 11.3134



## Tritanomaly

36.4820, 51.2369, 39.4194

# Monochromacy



## Original Color

31.1516, 52.8342, 11.2455



## Achromatopsia

35.2861, 37.1238, 40.4278



## Achromatomaly

31.7124, 41.0871, 24.3483

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.1516, 52.8342, 11.2455 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(105, 217, 47)` looks like.

```
.text, #text, p{  
    color:rgb(105, 217, 47)  
}
```

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(105, 217, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 217, 47) }
```

## Border

The CSS property to change the border of an element to XYZ 31.1516, 52.8342, 11.2455 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(105, 217, 47) }
```



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

```
.border{ border-color:rgb(105, 217, 47) }
```

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

Here you see how a box with a 4 pixel rgb(105, 217, 47) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 217, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 217, 47);  
box-shadow:4px 4px 4px 4px rgb(105, 217,  
47) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.1516, 52.8342, 11.2455 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 217, 47) }
```

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

```
.background{ background-color: rgb(105,  
217, 47) }
```

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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