

# Converting Colors

XYZ(56.3868, 82.0845, 16.0040)

Have a look what the booklet for  
XYZ(56.3868, 82.0845, 16.0040)  
contains.

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# Color

**XYZ(56.3651, 82.0733,  
16.0029)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B9FF33
RGB	185, 255, 51
RGB Percent	73%, 100%, 20%
CMY	0.2745, 0.0000, 0.8000
CMYK	0.27, 0.00, 0.80, 0.00
HSL	81°, 100%, 60%
HSV	81°, 80%, 100%
XYZ	56.3651, 82.0733, 16.0029
YIQ	210.8140, 23.7640, -78.2840

# Conversions

## Conversions Part 2

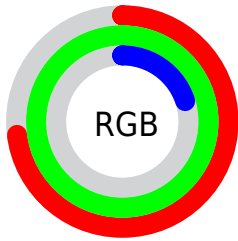
<b>Format</b>	<b>Color</b>
<b>RYB</b>	51, 255, 121
Decimal	12189491
CIELab	92.61, -48.06, 81.71
CIELCh	93, 94.793, 120.463
Yxy	82.0733, 0.3650, 0.5314
Android (android.graphics.Color)	4290379571 (0xFFB9FF33)
YUV	210.8140, -78.7883, -22.6389
Hunter-Lab	90.5943, -47.4826, 52.9428

# Details

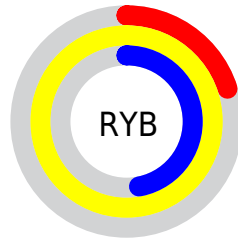
The XYZ color **56.3651, 82.0733, 16.0029** is a light color, and the websafe version is hex **CCFF33**. The color can be described as light washed chartreuse. A complement of this color would be **27.1208, 13.6542, 95.8138**, and the grayscale version is **62.2871, 65.5309, 71.3632**.

A 20% lighter version of the original color is **76.5107, 92.1703, 29.9778**, and **28.7983, 44.8238, 7.1340** is the 20% darker color. If you saturate the color by 10%, you get **53.9018, 80.8516, 13.7138**, and if you desaturate by 10%, it is **59.2663, 83.4852, 19.9213**.

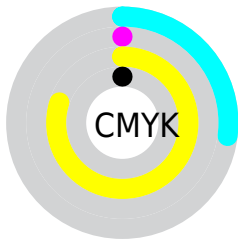
# Distribution



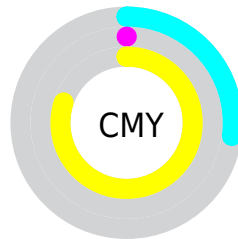
- Red (73%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (47%)



- Cyan (27%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)




- Cyan (27%)
- Magenta (0%)
- Yellow (80%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 56.3651, 82.0733, 16.0029 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 56.3651, 82.0733, 16.0029 by changing the saturation by 10% instead.





 56.3651, 82.0733,  
16.0029

 56.3651, 82.0733,  
16.0029


401.1187,  
501.8928, 241.2051

 40.7339, 61.4260,  
9.3718


 98.6749, 136.2768,  
37.3701


 28.2979, 44.5690,  
4.8844


 126.0842,  
170.6017, 52.9433


 18.6920, 31.1181,  
2.1220


 158.1502,  
210.2546, 72.3343

 11.5506, 20.6888,  
0.6288

 195.2383,  
255.6199, 95.9616

 6.5085, 12.8967,  
0.0000

 237.7139,  
307.0820, 124.2439

 3.2002, 7.3575,  
0.0000

285.9422,

 1.2605, 3.6866,

365.0253, 157.5995

0.0000

340.2887,  
429.8341, 196.4471

■ 0.1534, 1.4999,  
0.0000

■ 0.0000, 0.2886,  
0.0000

■ 56.3651, 82.0733,  
16.0029

■ 56.3651, 82.0733,  
16.0029

■ 53.9018, 80.8516,  
13.7138

■ 59.2663, 83.4852,  
19.9213

■ 51.8019, 79.7899,  
12.6710

■ 62.6515, 85.1060,  
25.6979

■ 51.8012, 79.7895,  
12.6707

■ 66.5600, 86.9516,  
33.5285

■ 71.0262, 89.0361,  
43.5833

■ 76.0811, 91.3721,  
56.0149

■ 81.7532, 93.9712,  
70.9622

■ 88.0689, 96.8442,  
88.5534

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



77.6256, 82.0733, 10.7592



56.3651, 82.0733, 16.0029



43.6158, 82.0733, 37.7666

# Triad

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



56.3651, 82.0733, 16.0029



56.9013, 82.0733, 267.0839



135.6374, 82.0733, 88.2708

# Complementary

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



56.3651, 82.0733, 16.0029



27.1208, 13.6542, 95.8138

# 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.



126.9280, 82.0733, 174.3550



56.3651, 82.0733, 16.0029



78.3921, 82.0733, 305.3664

# Square

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



56.3651, 82.0733, 16.0029



43.8764, 82.0733, 177.3401



104.5842, 82.0733, 264.8132



126.3986, 82.0733, 36.7061



# Rectangle

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



56.3651, 82.0733, 16.0029



39.9861, 82.0733, 68.7118



104.5842, 82.0733, 264.8132



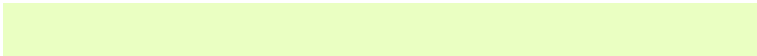
134.6949, 82.0733, 113.7877

# Sweetspot

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



56.3652, 82.0733, 16.0041



79.4064, 92.8983, 64.6672



48.4353, 34.6943, 7.2769



16.5675, 19.6875, 12.7173



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.



56.3652, 82.0733, 16.0041



52.6094, 80.1998, 13.0002



40.1048, 73.6908, 15.2431



18.9205, 20.7604, 19.1543



27.2338, 41.7776, 6.6285



2.7690, 4.1282, 0.6509



# Inverse Universe

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



27.1208, 13.6542, 95.8138



22.7978, 9.8319, 95.3039



49.0535, 24.9609, 96.8403



17.5907, 17.6807, 22.7355



11.6533, 4.9180, 49.7697

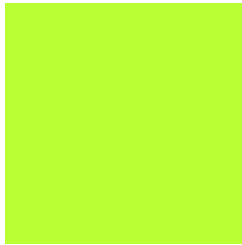


1.2465, 0.5365, 4.8511



# Previews

## White Background



This preview shows how the XYZ color 56.3651, 82.0733, 16.0029 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

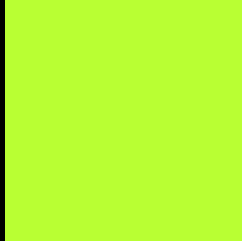
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 56.3651, 82.0733, 16.0029 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 56.3651, 82.0733, 16.0029**

## **Background**



This preview shows how black text looks on a background with the XYZ color 56.3651, 82.0733, 16.0029.



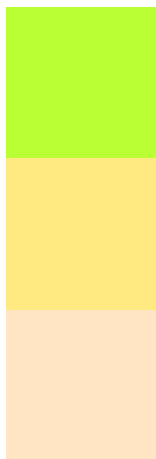
This preview shows how white text looks on a background with the XYZ color 56.3651, 82.0733,



# 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

56.3651, 82.0733, 16.0029

### Protanopia

74.3414, 81.1228, 32.5089

### Deuteranopia

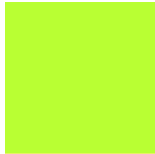
79.1096, 81.2388, 63.1409



## Tritanopia

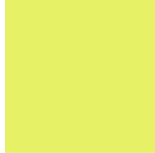
74.9125, 81.4900, 106.3886

# Trichromacy



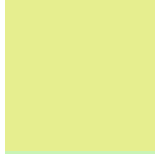
## Original Color

56.3651, 82.0733, 16.0029



## Protanomaly

66.4374, 80.6732, 24.3818



## Deuteranomaly

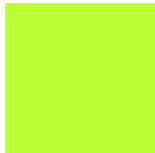
68.1656, 79.9552, 37.8268



## Tritanomaly

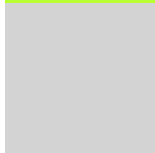
64.7786, 80.4551, 55.8313

# Monochromacy



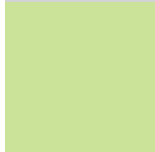
## Original Color

56.3651, 82.0733, 16.0029



## Achromatopsia

61.9161, 65.1406, 70.9381



## Achromatomaly

57.5760, 69.7946, 40.5741

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 56.3651, 82.0733, 16.0029 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(185, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(185, 255, 51)  
}
```

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(185, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 255, 51) }
```

## Border

The CSS property to change the border of an element to XYZ 56.3651, 82.0733, 16.0029 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(185, 255, 51) }
```



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

```
.border{ border-color:rgb(185, 255, 51) }
```

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

Here you see how a box with a 4 pixel rgb(185, 255, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(185, 255,  
51) }
```

# Background

The CSS property to change the background color of an element to XYZ 56.3651, 82.0733, 16.0029 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 255, 51) }
```

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

```
.background{ background-color: rgb(185,  
255, 51) }
```

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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