

Converting Colors

XYZ(50.0989, 78.8276, 16.3412)

Have a look what the booklet for
XYZ(50.0989, 78.8276, 16.3412)
contains.

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Color

**XYZ(50.1841, 78.8734,
16.3205)**

Conversions

Conversions Part 1

Format	Color
Hex	9CFF38
RGB	156, 255, 56
RGB Percent	61%, 100%, 22%
CMY	0.3882, 0.0000, 0.7804
CMYK	0.39, 0.00, 0.78, 0.00
HSL	90°, 100%, 61%
HSV	90°, 78%, 100%
XYZ	50.1841, 78.8734, 16.3205
YIQ	202.7130, 4.8750, -82.8770

Conversions

Conversions Part 2

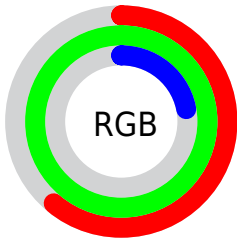
Format	Color
RYB	56, 255, 155
Decimal	10288952
CIELab	91.18, -57.85, 78.55
CIELCh	91, 97.551, 126.370
Yxy	78.8734, 0.3452, 0.5425
Android (android.graphics.Color)	4288479032 (0xFF9CFF38)
YUV	202.7130, -72.3295, -40.9673
Hunter-Lab	88.8107, -54.5540, 51.2719

Details

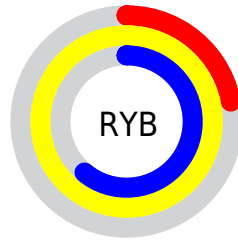
The XYZ color **50.1841, 78.8734, 16.3205** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **32.9840, 17.0187, 96.1542**, and the grayscale version is **57.0223, 59.9919, 65.3312**.

A 20% lighter version of the original color is **67.3489, 87.4269, 30.4650**, and **24.9134, 42.8211, 6.9522** is the 20% darker color. If you saturate the color by 10%, you get **47.3829, 77.4840, 13.7212**, and if you desaturate by 10%, it is **53.5593, 80.5221, 20.6045**.

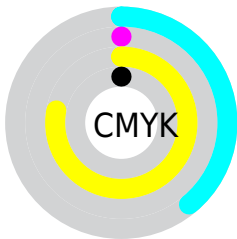
Distribution



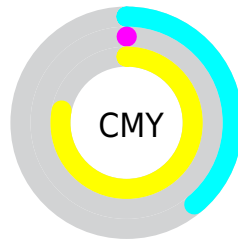
- Red (61%)
- Green (100%)
- Blue (22%)



- Red (22%)
- Yellow (100%)
- Blue (61%)



- Cyan (39%)
- Magenta (0%)
- Yellow (78%)
- Black (0%)





- Cyan (39%)
- Magenta (0%)
- Yellow (78%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 50.1841, 78.8734, 16.3205 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 50.1841, 78.8734, 16.3205 by changing the saturation by 10% instead.


 50.1841, 78.8734,
16.3205


 50.1841, 78.8734,
16.3205


377.8255,
491.1280, 243.1355

 35.7781, 58.7917,
9.5944


 89.6378, 131.7806,
37.9282


 24.4322, 42.4455,
5.0288


 115.4162,
165.3750, 53.6470


 15.7810, 29.4503,
2.2051


 145.7161,
204.2423, 73.2003

 9.4592, 19.4217,
0.6773

 180.9028,
248.7670, 97.0068

 5.1014, 11.9754,
0.0000

 221.3418,
299.3336, 125.4851

 2.3422, 6.7269,
0.0000

267.3983,

 0.8161, 3.2919,

356.3263, 159.0536

0.0000

319.4378,
420.1296, 198.1309

0.0000, 1.2860,
0.0000

0.0000, 0.1303,
0.0000

50.1841, 78.8734,
16.3205

50.1841, 78.8734,
16.3205

47.3829, 77.4840,
13.7212

53.5593, 80.5221,
20.6045

45.0898, 76.3265,
12.4999

57.5579, 82.4506,
26.7934

44.6823, 76.1196,
12.3376

62.2232, 84.6771,
35.0777

67.5935, 87.2178,
45.6240

■ 73.7040, 90.0874,
58.5820

■ 80.5871, 93.2996,
74.0887

■ 88.2729, 96.8673,
92.2707

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.



69.8201, 78.8734, 9.2244



50.1841, 78.8734, 16.3205



39.3324, 78.8734, 42.0857

Triad

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



50.1841, 78.8734, 16.3205



57.4971, 78.8734, 280.4656



132.7617, 78.8734, 71.6557

Complementary

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



50.1841, 78.8734, 16.3205



32.9840, 17.0187, 96.1542

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.



127.4353, 78.8734, 152.7447



50.1841, 78.8734, 16.3205



80.3604, 78.8734, 304.3675

Square

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



50.1841, 78.8734, 16.3205



42.8606, 78.8734, 194.4166



106.8024, 78.8734, 248.5422



120.0765, 78.8734, 27.8399

Rectangle

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



50.1841, 78.8734, 16.3205



36.8579, 78.8734, 77.5538



106.8024, 78.8734, 248.5422



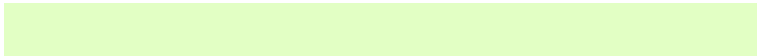
133.0517, 78.8734, 94.7812

Sweetspot

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



50.1843, 78.8735, 16.3217



77.0716, 91.6613, 66.0640



53.2128, 44.0632, 9.4430



15.9751, 19.3757, 12.9773



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.



50.1843, 78.8735, 16.3217



45.9606, 76.7684, 12.8586



38.2970, 72.7454, 15.7653



18.6414, 20.6166, 19.1412



23.5199, 39.8630, 6.4547



2.4160, 3.9463, 0.6344

Inverse Universe

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



32.9840, 17.0187, 96.1542



28.1451, 12.6841, 95.5726



59.4950, 30.6856, 97.3949



17.8639, 17.8216, 22.7483



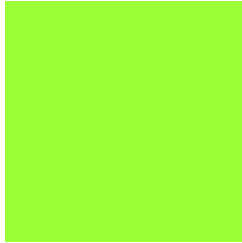
14.1663, 6.2135, 49.8873



1.5052, 0.6699, 4.8632

Previews

White Background



This preview shows how the XYZ color 50.1841, 78.8734, 16.3205 looks on a white background.

Color Contrast Check

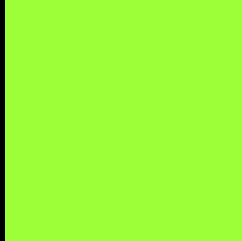
Large Text (above 18pt) WCAG AA × Fail

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 50.1841, 78.8734, 16.3205 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

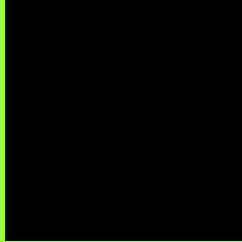
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 50.1841, 78.8734, 16.3205

Background



This preview shows how black text looks on a background with the XYZ color 50.1841, 78.8734, 16.3205.

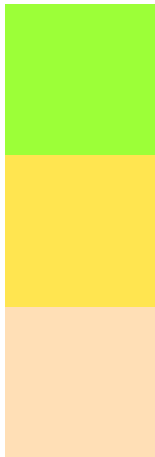


This preview shows how white text looks on a background with the XYZ color 50.1841, 78.8734,

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

50.1841, 78.8734, 16.3205

Protanopia

70.7073, 77.8778, 18.8947

Deuteranopia

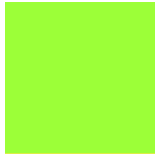
76.0712, 77.4128, 55.1887



Tritanopia

68.5839, 78.2275, 106.0924

Trichromacy



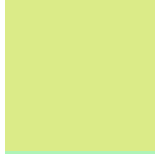
Original Color

50.1841, 78.8734, 16.3205



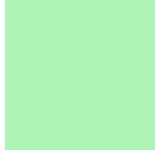
Protanomaly

60.9253, 76.6641, 17.5478



Deuteranomaly

63.3657, 76.2543, 34.6714



Tritanomaly

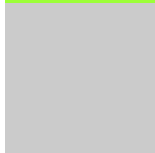
58.5771, 77.2342, 56.6201

Monochromacy



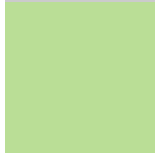
Original Color

50.1841, 78.8734, 16.3205



Achromatopsia

56.7640, 59.7202, 65.0353



Achromatomaly

51.8760, 64.8837, 38.6438

CSS Examples

Text

The CSS property to change the color of the text to XYZ 50.1841, 78.8734, 16.3205 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(156, 255, 56)` looks like.

```
.text, #text, p{  
    color:rgb(156, 255, 56)  
}
```

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(156, 255, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(156, 255, 56) }
```

Border

The CSS property to change the border of an element to XYZ 50.1841, 78.8734, 16.3205 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(156, 255, 56) }
```


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

```
.border{ border-color:rgb(156, 255, 56) }
```

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

Here you see how a box with a 4 pixel rgb(156, 255, 56) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(156, 255, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(156, 255, 56);  
box-shadow:4px 4px 4px 4px rgb(156, 255,  
56) }
```

Background

The CSS property to change the background color of an element to XYZ 50.1841, 78.8734, 16.3205 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(156, 255, 56) }
```

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

```
.background{ background-color: rgb(156,  
255, 56) }
```

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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