

Converting Colors

XYZ(46.8345, 77.1475, 16.1251)

Have a look what the booklet for
XYZ(46.8345, 77.1475, 16.1251)
contains.

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Color

**XYZ(46.7903, 77.1239,
16.1617)**

Conversions

Conversions Part 1

Format	Color
Hex	89FF38
RGB	137, 255, 56
RGB Percent	54%, 100%, 22%
CMY	0.4627, 0.0000, 0.7804
CMYK	0.46, 0.00, 0.78, 0.00
HSL	96°, 100%, 61%
HSV	96°, 78%, 100%
XYZ	46.7903, 77.1239, 16.1617
YIQ	197.0320, -6.4490, -86.9050

Conversions

Conversions Part 2

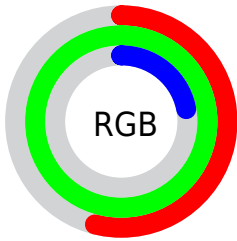
Format	Color
RYB	56, 255, 174
Decimal	9043768
CIELab	90.38, -63.73, 77.52
CIELCh	90, 100.351, 129.425
Yxy	77.1239, 0.3340, 0.5506
Android (android.graphics.Color)	4287233848 (0xFF89FF38)
YUV	197.0320, -69.5288, -52.6481
Hunter-Lab	87.8202, -58.5812, 50.5629

Details

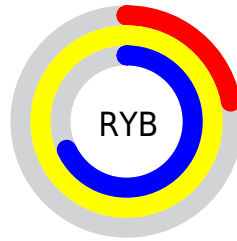
The XYZ color **46.7903, 77.1239, 16.1617** is a dark color, and the websafe version is hex **99FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **36.9224, 19.0490, 96.3385**, and the grayscale version is **53.5003, 56.2865, 61.2960**.

A 20% lighter version of the original color is **62.3187, 84.8338, 30.2296**, and **22.6387, 41.3102, 6.7805** is the 20% darker color. If you saturate the color by 10%, you get **44.0097, 75.7450, 13.5634**, and if you desaturate by 10%, it is **50.2359, 78.8088, 20.4490**.

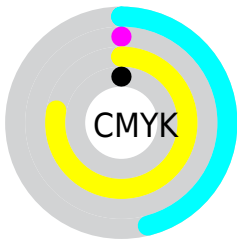
Distribution



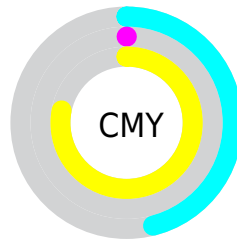
- Red (54%)
- Green (100%)
- Blue (22%)



- Red (22%)
- Yellow (100%)
- Blue (68%)



- Cyan (46%)
- Magenta (0%)
- Yellow (78%)
- Black (0%)





- Cyan (46%)
- Magenta (0%)
- Yellow (78%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.7903, 77.1239, 16.1617 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 46.7903, 77.1239, 16.1617 by changing the saturation by 10% instead.


 46.7903, 77.1239,
16.1617


 46.7903, 77.1239,
16.1617


364.6398,
485.1864, 242.1722

 33.0772, 57.3546,
9.4831


 84.6212, 129.3144,
37.6494

 22.3451, 41.2900,
4.9565


 109.4696,
162.5043, 53.2955


 14.2287, 28.5457,
2.1635


 138.7605,
200.9365, 72.7679

 8.3627, 18.7375,
0.6532

 172.8593,
244.9955, 96.4850

 4.3816, 11.4807,
0.0000

 212.1312,
295.0656, 124.8655

 1.9202, 6.3912,
0.0000

256.9417,

 0.5885, 3.0844,

351.5311, 158.3278

0.0000

307.6561,
414.7766, 197.2905

■ 0.0000, 1.1759,
0.0000

■ 0.0000, 0.0419,
0.0000

■ 46.7903, 77.1239,
16.1617

■ 46.7903, 77.1239,
16.1617

■ 44.0097, 75.7450,
13.5634

■ 50.2359, 78.8088,
20.4490

■ 41.8216, 74.6417,
12.3469

■ 54.4019, 80.8236,
26.6457

■ 41.4441, 74.4503,
12.1860

■ 59.3372, 83.1893,
34.9427

■ 65.0855, 85.9248,
45.5067

■ 71.6868, 89.0475,
58.4877

■ 79.1783, 92.5734,
74.0228

■ 87.5946, 96.5177,
92.2390

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.



65.7017, 77.1239, 8.1870



46.7903, 77.1239, 16.1617



36.8469, 77.1239, 44.2513

Triad

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



46.7903, 77.1239, 16.1617



57.6574, 77.1239, 290.4081



131.7716, 77.1239, 63.3653

Complementary

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



46.7903, 77.1239, 16.1617



36.9224, 19.0490, 96.3385

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.



128.2256, 77.1239, 142.3271



46.7903, 77.1239, 16.1617



81.4711, 77.1239, 306.5501

Square

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



46.7903, 77.1239, 16.1617



42.0574, 77.1239, 205.4495



108.3139, 77.1239, 241.7881



117.1207, 77.1239, 23.3321

Rectangle

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



46.7903, 77.1239, 16.1617



34.9414, 77.1239, 82.5988



108.3139, 77.1239, 241.7881



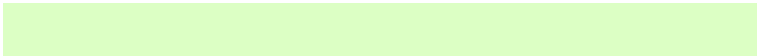
132.7309, 77.1239, 85.3660

Sweetspot

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



46.7905, 77.1239, 16.1628



75.3458, 90.7716, 65.9832



56.7231, 51.0838, 10.6131



15.5603, 19.1619, 12.9579



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.



46.7905, 77.1239, 16.1628



42.6403, 75.0567, 12.7033



38.5805, 72.8367, 18.2581



18.4716, 20.5290, 19.1333



21.8141, 38.9837, 6.3749



2.2440, 3.8576, 0.6263

Inverse Universe

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



36.9224, 19.0490, 96.3385



32.2159, 14.7827, 95.7631



58.1486, 30.2868, 83.9920



18.0358, 17.9102, 22.7564



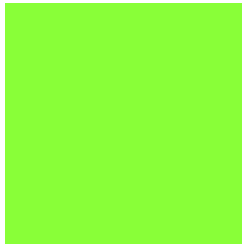
16.2945, 7.3106, 49.9869



1.7104, 0.7757, 4.8728

Previews

White Background



This preview shows how the XYZ color 46.7903, 77.1239, 16.1617 looks on a white background.

Color Contrast Check

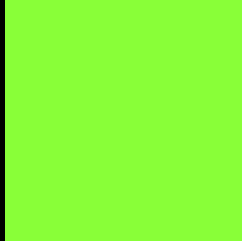
Large Text (above 18pt) WCAG AA × Fail

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 46.7903, 77.1239, 16.1617 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

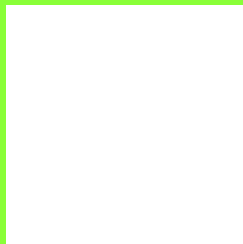
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 46.7903, 77.1239, 16.1617

Background



This preview shows how black text looks on a background with the XYZ color 46.7903, 77.1239, 16.1617.



This preview shows how white text looks on a background with the XYZ color 46.7903, 77.1239,

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

46.7903, 77.1239, 16.1617

Protanopia

68.6238, 75.6853, 13.8976

Deuteranopia

74.4732, 75.5024, 50.6927



Tritanopia

65.3474, 76.5590, 105.9409

Trichromacy



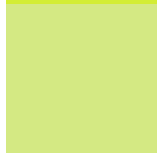
Original Color

46.7903, 77.1239, 16.1617



Protanomaly

57.7680, 74.6652, 14.6159



Deuteranomaly

60.3870, 73.9136, 32.5567



Tritanomaly

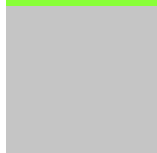
55.1960, 75.4912, 56.4619

Monochromacy



Original Color

46.7903, 77.1239, 16.1617



Achromatopsia

53.0703, 55.8340, 60.8033



Achromatomaly

47.9389, 61.3321, 36.5058

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.7903, 77.1239, 16.1617 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(137, 255, 56)` looks like.

```
.text, #text, p{  
    color:rgb(137, 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(137, 255, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 255, 56) }
```

Border

The CSS property to change the border of an element to XYZ 46.7903, 77.1239, 16.1617 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(137, 255, 56) }
```


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

```
.border{ border-color:rgb(137, 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(137, 255, 56) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 255, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 255, 56);  
box-shadow:4px 4px 4px 4px rgb(137, 255,  
56) }
```

Background

The CSS property to change the background color of an element to XYZ 46.7903, 77.1239, 16.1617 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 255, 56) }
```

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

```
.background{ background-color: rgb(137,  
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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