

# Converting Colors

XYZ(46.2223, 76.8223, 16.5297)

Have a look what the booklet for  
XYZ(46.2223, 76.8223, 16.5297)  
contains.

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# Color

**XYZ(46.2223, 76.8223,  
16.5297)**

# Conversions

## Conversions Part 1

Format	Color
Hex	85FF3B
RGB	133, 255, 59
RGB Percent	52%, 100%, 23%
CMY	0.4784, 0.0000, 0.7686
CMYK	0.48, 0.00, 0.77, 0.00
HSL	97°, 100%, 62%
HSV	97°, 77%, 100%
XYZ	46.2223, 76.8223, 16.5297
YIQ	196.1780, -9.7960, -86.8200

# Conversions

## Conversions Part 2

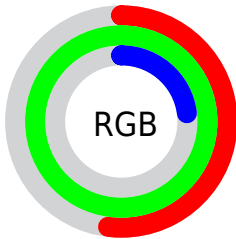
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">59, 255, 181</a>
Decimal	<a href="#">8781627</a>
CIELab	<a href="#">90.24, -64.74, 76.48</a>
CIELCh	<a href="#">90, 100.199, 130.246</a>
Yxy	<a href="#">76.8223, 0.3312, 0.5504</a>
Android (android.graphics.Color)	<a href="#">4286971707 (0xFF85FF3B)</a>
YUV	<a href="#">196.1780, -67.6288, -55.4071</a>
Hunter-Lab	<a href="#">87.6483, -59.2507, 50.1723</a>

# Details

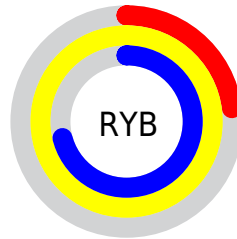
The XYZ color **46.2223, 76.8223, 16.5297** is a dark color, and the websafe version is hex **99FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **38.6725, 20.1736, 96.4634**, and the grayscale version is **52.9743, 55.7331, 60.6933**.

A 20% lighter version of the original color is **61.6558, 84.4782, 30.8256**, and **22.2810, 41.1258, 6.7637** is the 20% darker color. If you saturate the color by 10%, you get **43.3949, 75.4234, 13.7475**, and if you desaturate by 10%, it is **49.7515, 78.5457, 21.0310**.

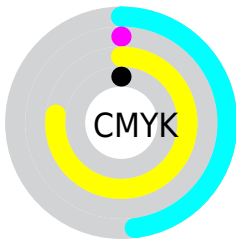
# Distribution



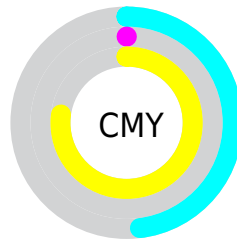
- Red (52%)
- Green (100%)
- Blue (23%)



- Red (23%)
- Yellow (100%)
- Blue (71%)



- Cyan (48%)
- Magenta (0%)
- Yellow (77%)
- Black (0%)




- Cyan (48%)
- Magenta (0%)
- Yellow (77%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.2223, 76.8223, 16.5297 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 46.2223, 76.8223, 16.5297 by changing the saturation by 10% instead.





 46.2223, 76.8223,  
16.5297

 46.2223, 76.8223,  
16.5297

362.4026,  
484.1579, 244.3989

 32.6266, 57.1070,  
9.7414


 83.7774, 128.8886,  
38.2949

 21.9984, 41.0912,  
5.1245


 108.4676,  
162.0084, 54.1088


 13.9724, 28.3903,  
2.2605


 137.5866,  
200.3653, 73.7683

 8.1830, 18.6201,  
0.7089

 171.4999,  
244.3435, 97.6920

 4.2651, 11.3961,  
0.0000

 210.5728,  
294.3274, 126.2983

 1.8532, 6.3339,  
0.0000

255.1707,

 0.5494, 3.0492,

350.7016, 160.0059

0.0000

305.6588,  
413.8503, 199.2333

0.0000, 1.1575,  
0.0000

0.0000, 0.0265,  
0.0000

46.2223, 76.8223,  
16.5297

46.2223, 76.8223,  
16.5297

43.3949, 75.4234,  
13.7475

49.7515, 78.5457,  
21.0310

41.1992, 74.3189,  
12.4035

54.0393, 80.6181,  
27.4670

40.6122, 74.0214,  
12.1471

59.1360, 83.0614,  
36.0255

65.0871, 85.8954,  
46.8712

■ 71.9340, 89.1383,  
60.1524

■ 79.7155, 92.8070,  
76.0051

■ 88.4676, 96.9173,  
94.5550

■ 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.



64.8194, 76.8223, 8.2325



46.2223, 76.8223, 16.5297



36.5594, 76.8223, 45.3003

# Triad

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



46.2223, 76.8223, 16.5297



57.9859, 76.8223, 290.7628



131.0682, 76.8223, 61.5290

# Complementary

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



46.2223, 76.8223, 16.5297



38.6725, 20.1736, 96.4634

# 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.



128.0543, 76.8223, 139.1482



46.2223, 76.8223, 16.5297



81.8788, 76.8223, 304.4876

# Square

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



46.2223, 76.8223, 16.5297



42.2028, 76.8223, 207.3661



108.5674, 76.8223, 238.2569



116.0519, 76.8223, 22.6115



# Rectangle

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



46.2223, 76.8223, 16.5297



34.8098, 76.8223, 84.2364



108.5674, 76.8223, 238.2569



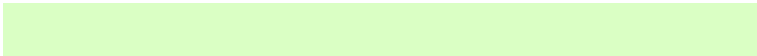
132.1996, 76.8223, 83.0592

# Sweetspot

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



46.2225, 76.8224, 16.5309



74.8244, 90.5028, 65.9588



58.3246, 54.1659, 11.5198



15.4355, 19.0975, 12.9521



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.



46.2225, 76.8224, 16.5309



42.1925, 74.8211, 12.8988



39.0823, 73.0573, 19.9992



18.4196, 20.5022, 19.1308



21.3729, 38.7562, 6.3542



2.1976, 3.8337, 0.6241



# Inverse Universe

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



38.6725, 20.1736, 96.4634



34.1241, 15.8884, 95.8760



57.3890, 30.2226, 79.2528



18.0893, 17.9378, 22.7589



17.0459, 7.6980, 50.0220

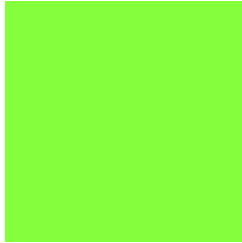


1.7811, 0.8121, 4.8762



# Previews

## White Background



This preview shows how the XYZ color 46.2223, 76.8223, 16.5297 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

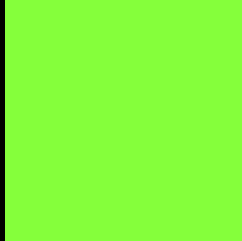
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.2223, 76.8223, 16.5297 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

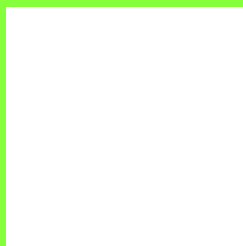
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.2223, 76.8223, 16.5297**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.2223, 76.8223, 16.5297.



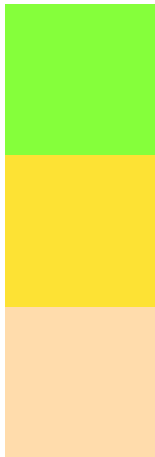
This preview shows how white text looks on a background with the XYZ color 46.2223, 76.8223,



# 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

46.2223, 76.8223, 16.5297

### Protanopia

68.3242, 75.5233, 14.2252

### Deuteranopia

74.2796, 75.4250, 49.6732



## Tritanopia

64.6964, 76.2234, 105.9105

# Trichromacy



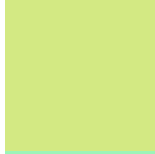
## Original Color

46.2223, 76.8223, 16.5297



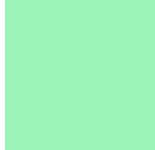
## Protanomaly

57.2683, 74.3995, 14.9566



## Deuteranomaly

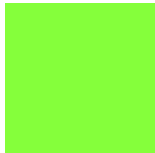
60.0996, 73.7654, 32.5433



## Tritanomaly

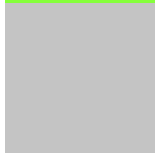
54.7127, 75.2300, 56.9846

# Monochromacy



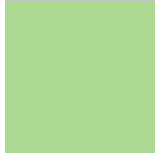
## Original Color

46.2223, 76.8223, 16.5297



## Achromatopsia

52.4687, 55.2011, 60.1140



## Achromatomaly

47.2347, 60.5853, 36.3987

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.2223, 76.8223, 16.5297 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(133, 255, 59)` looks like.

```
.text, #text, p{  
    color:rgb(133, 255, 59)  
}
```

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(133, 255, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 255, 59) }
```

## Border

The CSS property to change the border of an element to XYZ 46.2223, 76.8223, 16.5297 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(133, 255, 59) }
```



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

```
.border{ border-color:rgb(133, 255, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 255, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 255, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 255, 59);  
box-shadow:4px 4px 4px 4px rgb(133, 255,  
59) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.2223, 76.8223, 16.5297 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 255, 59) }
```

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

```
.background{ background-color: rgb(133,  
255, 59) }
```

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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