

# Converting Colors

XYZ(57.9217, 100.0000,  
24.6285)

Have a look what the booklet for  
XYZ(57.9217, 100.0000, 24.6285)  
contains.

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# Color

**XYZ(46.2623, 76.7493,  
20.7633)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80FF54
RGB	128, 255, 84
RGB Percent	50%, 100%, 33%
CMY	0.4980, 0.0000, 0.6706
CMYK	0.50, 0.00, 0.67, 0.00
HSL	105°, 100%, 66%
HSV	105°, 67%, 100%
XYZ	46.2623, 76.7493, 20.7633
YIQ	197.5330, -20.8010, -80.1050

# Conversions

## Conversions Part 2

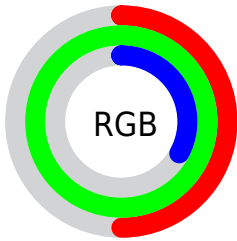
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">84, 255, 211</a>
Decimal	<a href="#">8453972</a>
CIELab	<a href="#">90.21, -64.48, 68.00</a>
CIELCh	<a href="#">90, 93.706, 133.478</a>
Yxy	<a href="#">76.7493, 0.3218, 0.5338</a>
Android (android.graphics.Color)	<a href="#">4286644052 (0xFF80FF54)</a>
YUV	<a href="#">197.5330, -55.9718, -60.9804</a>
Hunter-Lab	<a href="#">87.6067, -59.0515, 47.2726</a>

# Details

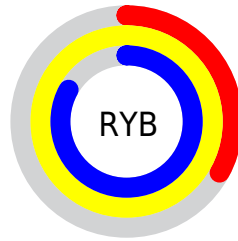
The XYZ color **46.2623, 76.7493, 20.7633** is a light color, and the websafe version is hex **66FF66**. The color can be described as light muted chartreuse. A complement of this color would be **48.0863, 27.4112, 97.3642**, and the grayscale version is **53.7309, 56.5291, 61.5601**.

A 20% lighter version of the original color is **61.5540, 84.2619, 38.2192**, and **21.9634, 40.9537, 7.1280** is the 20% darker color. If you saturate the color by 10%, you get **42.8508, 75.0857, 16.3053**, and if you desaturate by 10%, it is **50.5693, 78.8325, 27.1620**.

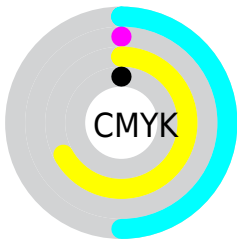
# Distribution



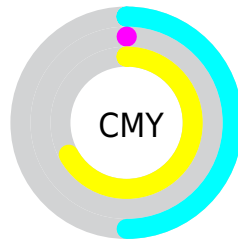
- Red (50%)
- Green (100%)
- Blue (33%)



- Red (33%)
- Yellow (100%)
- Blue (83%)



- Cyan (50%)
- Magenta (0%)
- Yellow (67%)
- Black (0%)




- Cyan (50%)
- Magenta (0%)
- Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.2623, 76.7493, 20.7633 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 46.2623, 76.7493, 20.7633 by changing the saturation by 10% instead.





 46.2623, 76.7493,  
20.7633

 46.2623, 76.7493,  
20.7633


362.5605,  
483.9088, 268.7575

 32.6584, 57.0471,  
12.7615


 83.8369, 128.7855,  
45.5689


 22.0228, 41.0431,  
7.1358


 108.5382,  
161.8884, 63.2099

 13.9904, 28.3528,  
3.4674


 137.6694,  
200.2269, 84.9010

 8.1956, 18.5917,  
1.3380

 171.5958,  
244.1856, 111.0607

 4.2732, 11.3757,  
0.0926

210.6827,  
294.1487, 142.1077

 1.8578, 6.3201,  
0.0000

255.2956,

 0.5522, 3.0407,

350.5007, 178.4605

0.0000

305.7997,  
413.6259, 220.5376

0.0000, 1.1530,  
0.0000

0.0000, 0.0228,  
0.0000

46.2623, 76.7493,  
20.7633

46.2623, 76.7493,  
20.7633

42.8508, 75.0857,  
16.3053

50.5693, 78.8325,  
27.1620

40.2629, 73.8096,  
13.5639

55.8340, 81.3633,  
35.6856

38.4130, 72.8829,  
12.2588

62.1131, 84.3674,  
46.5009

37.9804, 72.6647,  
12.0239

69.4587, 87.8684,  
59.7569

■ 77.9192, 91.8883,  
75.5903

■ 87.5397, 96.4475,  
94.1274

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.



62.9973, 76.7493, 10.5945



46.2623, 76.7493, 20.7633



37.8781, 76.7493, 52.1349

# Triad

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



46.2623, 76.7493, 20.7633



60.9360, 76.7493, 276.7721



125.7568, 76.7493, 57.0900

# Complementary

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



46.2623, 76.7493, 20.7633



48.0863, 27.4112, 97.3642

# 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.



124.8734, 76.7493, 125.6178



46.2623, 76.7493, 20.7633



83.8947, 76.7493, 280.7094

# Square

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



46.2623, 76.7493, 20.7633



45.0315, 76.7493, 206.5729



108.3161, 76.7493, 215.5080



110.5207, 76.7493, 22.7265



# Rectangle

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



46.2623, 76.7493, 20.7633



36.7480, 76.7493, 91.5943



108.3161, 76.7493, 215.5080



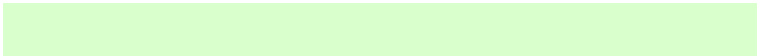
127.4192, 76.7493, 76.0229

# Sweetspot

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



46.2625, 76.7494, 20.7645



75.3105, 90.6500, 70.6547



65.7395, 67.6984, 17.9909



15.6062, 19.1590, 14.1603



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.



46.2625, 76.7494, 20.7645



42.0070, 74.6714, 15.3310



43.0487, 74.8579, 31.2172



18.2096, 20.3940, 19.1210



19.9619, 38.0288, 6.2882



2.0399, 3.7524, 0.6168



# Inverse Universe

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



48.0863, 27.4112, 97.3642



43.7302, 22.2160, 96.5910



56.6895, 32.5130, 67.6460



18.3097, 18.0514, 22.7692



20.5944, 9.5273, 50.1881

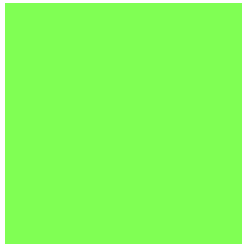


2.1067, 0.9800, 4.8914



# Previews

## White Background



This preview shows how the XYZ color 46.2623, 76.7493, 20.7633 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 46.2623, 76.7493, 20.7633 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

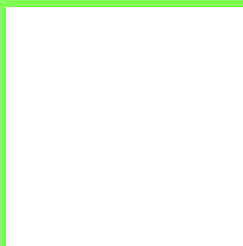
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.2623, 76.7493, 20.7633**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.2623, 76.7493, 20.7633.



This preview shows how white text looks on a background with the XYZ color 46.2623, 76.7493,



# 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

46.2623, 76.7493, 20.7633

### Protanopia

68.6457, 75.6100, 17.8136

### Deuteranopia

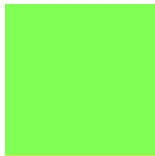
74.4732, 75.5024, 50.6927



## Tritanopia

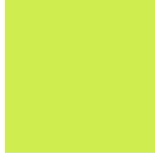
64.2705, 76.0039, 105.8905

# Trichromacy



## Original Color

46.2623, 76.7493, 20.7633



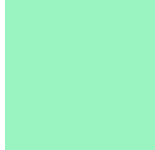
## Protanomaly

57.4276, 74.3983, 18.7307



## Deuteranomaly

60.2411, 73.7562, 36.2606



## Tritanomaly

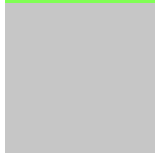
55.1132, 75.3239, 62.0863

# Monochromacy



## Original Color

46.2623, 76.7493, 20.7633



## Achromatopsia

53.6758, 56.4712, 61.4971



## Achromatomaly

48.6509, 61.9816, 41.2978

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.2623, 76.7493, 20.7633 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(128, 255, 84)` looks like.

```
.text, #text, p{  
    color:rgb(128, 255, 84)  
}
```

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(128, 255, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 255, 84) }
```

## Border

The CSS property to change the border of an element to XYZ 46.2623, 76.7493, 20.7633 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(128, 255, 84) }
```



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

```
.border{ border-color:rgb(128, 255, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 255, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 255, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 255, 84);  
box-shadow:4px 4px 4px 4px rgb(128, 255,  
84) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.2623, 76.7493, 20.7633 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 255, 84) }
```

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

```
.background{ background-color: rgb(128,  
255, 84) }
```

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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