

# Converting Colors

XYZ(60.9393, 106.3363,  
26.7733)

Have a look what the booklet for  
XYZ(60.9393, 106.3363, 26.7733)  
contains.

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# Color

**XYZ(46.0206, 76.6012,  
21.8112)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7DFF59
RGB	125, 255, 89
RGB Percent	49%, 100%, 35%
CMY	0.5098, 0.0000, 0.6510
CMYK	0.51, 0.00, 0.65, 0.00
HSL	107°, 100%, 67%
HSV	107°, 65%, 100%
XYZ	46.0206, 76.6012, 21.8112
YIQ	197.2060, -24.1940, -79.1860

# Conversions

## Conversions Part 2

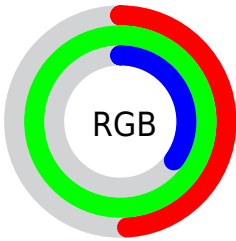
Format	Color
<a href="#">RYB</a>	<a href="#">89, 255, 219</a>
Decimal	<a href="#">8257369</a>
CIELab	<a href="#">90.14, -64.87, 65.97</a>
CIELCh	<a href="#">90, 92.522, 134.516</a>
Yxy	<a href="#">76.6012, 0.3186, 0.5304</a>
Android (android.graphics.Color)	<a href="#">4286447449 (0xFF7DFF59)</a>
YUV	<a href="#">197.2060, -53.3456, -63.3247</a>
Hunter-Lab	<a href="#">87.5221, -59.3054, 46.4899</a>

# Details

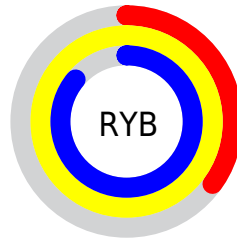
The XYZ color **46.0206, 76.6012, 21.8112** is a light color, and the websafe version is hex **66FF66**. The color can be described as light muted chartreuse. A complement of this color would be **50.8378, 29.4266, 97.6082**, and the grayscale version is **53.5184, 56.3055, 61.3167**.

A 20% lighter version of the original color is **61.1205, 84.0034, 39.7810**, and **21.8291, 40.8725, 7.6584** is the 20% darker color. If you saturate the color by 10%, you get **42.5006, 74.8896, 16.9922**, and if you desaturate by 10%, it is **50.4980, 78.7635, 28.6122**.

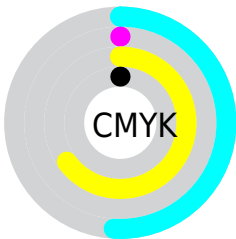
# Distribution



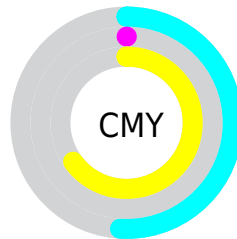
- Red (49%)
- Green (100%)
- Blue (35%)



- Red (35%)
- Yellow (100%)
- Blue (86%)



- Cyan (51%)
- Magenta (0%)
- Yellow (65%)
- Black (0%)




- Cyan (51%)
- Magenta (0%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.0206, 76.6012, 21.8112 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 46.0206, 76.6012, 21.8112 by changing the saturation by 10% instead.





 46.0206, 76.6012,  
21.8112


 46.0206, 76.6012,  
21.8112


361.6060,  
483.4032, 274.4800

 32.4668, 56.9256,  
13.5212


 83.4775, 128.5764,  
47.3319


 21.8755, 40.9455,  
7.6535


 108.1113,  
161.6448, 65.3998

 13.8816, 28.2765,  
3.7895


 137.1691,  
199.9462, 87.5640

 8.1195, 18.5342,  
1.5106

 171.0163,  
243.8651, 114.2432

 4.2240, 11.3342,  
0.2258

210.0182,  
293.7859, 145.8559

 1.8296, 6.2921,  
0.0000

254.5402,

 0.5354, 3.0235,

350.0929, 182.8205

0.0000

304.9477,  
413.1706, 225.5557

0.0000, 1.1440,  
0.0000

0.0000, 0.0152,  
0.0000

46.0206, 76.6012,  
21.8112

46.0206, 76.6012,  
21.8112

42.5006, 74.8896,  
16.9922

50.4980, 78.7635,  
28.6122

39.8616, 73.5940,  
13.9383

55.9988, 81.4066,  
37.5747

38.0153, 72.6746,  
12.3883

62.5839, 84.5584,  
48.8619

37.3518, 72.3406,  
11.9945

70.3089, 88.2442,  
62.6205

■ 79.2256, 92.4879,  
78.9852

■ 89.3824, 97.3118,  
98.0808

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.



62.2868, 76.6012, 11.0992



46.0206, 76.6012, 21.8112



37.9949, 76.6012, 53.9854

# Triad

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



46.0206, 76.6012, 21.8112



61.6395, 76.6012, 274.3753



124.4891, 76.6012, 55.5448

# Complementary

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



46.0206, 76.6012, 21.8112



50.8378, 29.4266, 97.6082

# 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.



124.2131, 76.6012, 121.9435



46.0206, 76.6012, 21.8112



84.4500, 76.6012, 275.6006

# Square

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



46.0206, 76.6012, 21.8112



45.6331, 76.6012, 207.2586



108.3763, 76.6012, 210.0434



109.0657, 76.6012, 22.4350



# Rectangle

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



46.0206, 76.6012, 21.8112



37.0525, 76.6012, 93.7686



108.3763, 76.6012, 210.0434



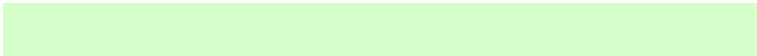
126.3182, 76.6012, 73.8359

# Sweetspot

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



46.0209, 76.6013, 21.8124



74.7007, 90.3356, 70.6261



67.6680, 71.2305, 19.6348



15.4623, 19.0848, 14.1536



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.



46.0209, 76.6013, 21.8124



41.6470, 74.4721, 15.9338



44.1327, 75.3451, 34.5055



18.1397, 20.3579, 19.1177



19.6187, 37.8519, 6.2721



1.9977, 3.7306, 0.6148



# Inverse Universe

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



50.8378, 29.4266, 97.6082



46.5829, 24.0358, 96.7919



56.5375, 33.0955, 64.8621



18.3846, 18.0900, 22.7727



21.9685, 10.2357, 50.2524

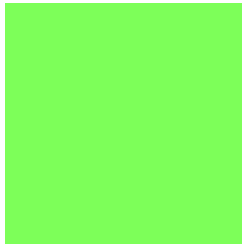


2.2301, 1.0436, 4.8972



# Previews

## White Background



This preview shows how the XYZ color 46.0206, 76.6012, 21.8112 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 46.0206, 76.6012, 21.8112 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

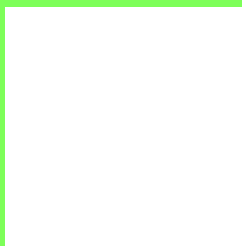
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.0206, 76.6012, 21.8112**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.0206, 76.6012, 21.8112.



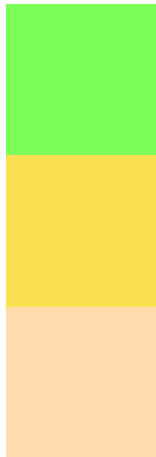
This preview shows how white text looks on a background with the XYZ color 46.0206, 76.6012,



# 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

46.0206, 76.6012, 21.8112

### Protanopia

68.1941, 74.9537, 18.6579

### Deuteranopia

74.1143, 74.9402, 50.0938



## Tritanopia

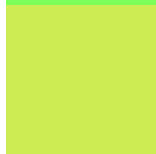
63.8512, 75.7877, 105.8709

# Trichromacy



## Original Color

46.0206, 76.6012, 21.8112



## Protanomaly

56.7725, 73.6101, 19.6035



## Deuteranomaly

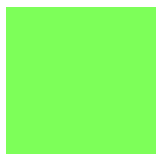
59.7515, 73.0761, 36.5470



## Tritanomaly

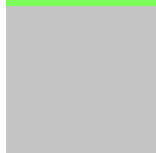
54.7787, 75.1255, 63.2433

# Monochromacy



## Original Color

46.0206, 76.6012, 21.8112



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

48.0375, 61.2694, 41.6421

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.0206, 76.6012, 21.8112 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(125, 255, 89)` looks like.

```
.text, #text, p{  
    color:rgb(125, 255, 89)  
}
```

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(125, 255, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(125, 255, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 46.0206, 76.6012, 21.8112 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(125, 255, 89) }
```



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

```
.border{ border-color:rgb(125, 255, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(125, 255, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(125, 255, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(125, 255, 89);  
box-shadow:4px 4px 4px 4px rgb(125, 255,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.0206, 76.6012, 21.8112 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(125, 255, 89) }
```

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

```
.background{ background-color: rgb(125,  
255, 89) }
```

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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