

# Converting Colors

XYZ(48.5292, 51.6963,  
106.0241)

Have a look what the booklet for  
XYZ(48.5292, 51.6963, 106.0241)  
contains.

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# **Color**

**XYZ(47.8816, 51.5686,  
102.0378)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89C3FF
RGB	137, 195, 255
RGB Percent	54%, 76%, 100%
CMY	0.4627, 0.2353, 0.0000
CMYK	0.46, 0.24, 0.00, 0.00
HSL	211°, 100%, 77%
HSV	211°, 46%, 100%
XYZ	47.8816, 51.5686, 102.0378
YIQ	184.4980, -53.8280, 6.3640

# Conversions

## Conversions Part 2

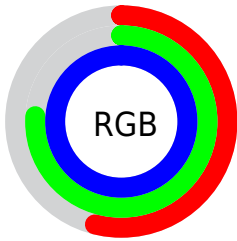
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	137, 176, 255
Decimal	9028607
CIE <sub>Lab</sub>	77.02, -3.11, -35.33
CIE <sub>LCh</sub>	77, 35.472, 264.965
Yxy	51.5686, 0.2376, 0.2559
Android (android.graphics.Color)	4287218687 (0xFF89C3FF)
YUV	184.4980, 34.7575, -41.6557
Hunter-Lab	71.8113, -6.6513, -33.9782

# Details

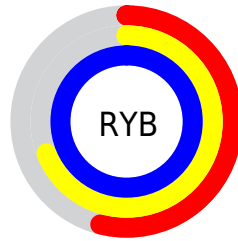
The XYZ color **47.8816, 51.5686, 102.0378** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **65.7224, 62.9996, 32.3650**, and the grayscale version is **45.6718, 48.0503, 52.3267**.

A 20% lighter version of the original color is **75.0529, 87.8165, 107.6023**, and **23.0905, 25.0855, 57.0511** is the 20% darker color. If you saturate the color by 10%, you get **41.4049, 44.1035, 100.9383**, and if you desaturate by 10%, it is **55.6015, 60.0511, 103.2683**.

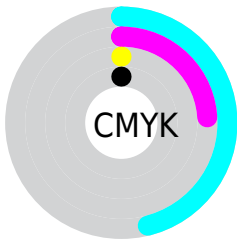
# Distribution



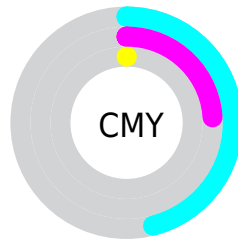
- Red (54%)
- Green (76%)
- Blue (100%)



- Red (54%)
- Yellow (69%)
- Blue (100%)



- Cyan (46%)
- Magenta (24%)
- Yellow (0%)
- Black (0%)



- Cyan (46%)
- Magenta (24%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.8816, 51.5686, 102.0378 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 47.8816, 51.5686, 102.0378 by changing the saturation by 10% instead.



■ 47.8816, 51.5686,  
102.0378

■ 47.8816, 51.5686,  
102.0378

368.9130,  
392.7689, 588.0089

■ 33.9440, 36.6613,  
77.3771

■ 86.2389, 92.4947,  
166.0310

■ 23.0133, 24.9454,  
57.0490

■ 111.3892,  
119.2823, 206.2007

■ 14.7240, 16.0364,  
40.6350

141.0079,  
150.7989, 252.3770

■ 8.7110, 9.5499,  
27.7164

175.4602,  
187.4287, 304.9787

■ 4.6088, 5.1016,  
17.8748

215.1115,  
229.5562, 364.4241

■ 2.0520, 2.3070,  
10.6917

260.3272,

■ 0.6629, 0.7774,

277.5658, 431.1320

5.7483

311.4726,  
331.8419, 505.5207

■ 0.0000, 0.0000,  
2.6264

■ 0.0000, 0.0000,  
0.9060

■ 47.8816, 51.5686,  
102.0378

■ 47.8816, 51.5686,  
102.0378

■ 41.4049, 44.1035,  
100.9383

■ 55.6015, 60.0511,  
103.2683

■ 36.0895, 37.6011,  
99.9634

■ 64.6296, 69.5907,  
104.6337

■ 31.8503, 32.0088,  
99.1074

■ 75.0320, 80.2311,  
106.1393

■ 28.5867, 27.2642,  
98.3636

■ 86.8684, 92.0118,  
107.7893

■ 26.1747, 23.2928,  
97.7241

95.0500, 100.0000,  
108.9000

■ 25.4268, 21.9736,  
97.5089

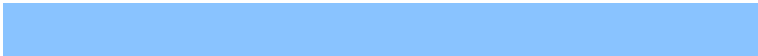
# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



41.9194, 51.5686, 92.5120



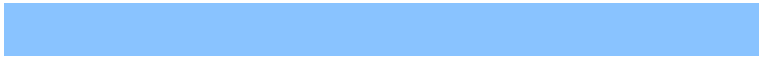
47.8816, 51.5686, 102.0378



54.7124, 51.5686, 97.1484

# Triad

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



47.8816, 51.5686, 102.0378



61.7786, 51.5686, 41.8473



39.1159, 51.5686, 37.3626

# Complementary

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



47.8816, 51.5686, 102.0378



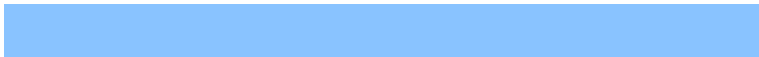
65.7224, 62.9996, 32.3650

# 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.



43.7264, 51.5686, 28.6943



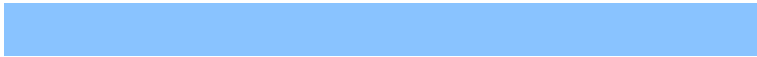
47.8816, 51.5686, 102.0378



56.8680, 51.5686, 30.8353

# Square

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



47.8816, 51.5686, 102.0378



63.1482, 51.5686, 59.4829



50.1649, 51.5686, 26.6136

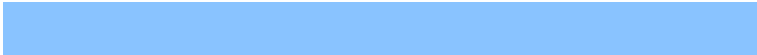


37.1645, 51.5686, 52.9429



# Rectangle

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



47.8816, 51.5686, 102.0378



58.7939, 51.5686, 86.8490



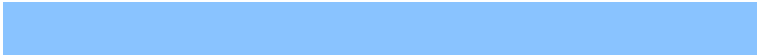
50.1649, 51.5686, 26.6136



40.3843, 51.5686, 33.6996

# Sweetspot

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



47.8832, 51.5704, 102.0381



77.5939, 82.8068, 106.5014



56.0414, 80.8244, 64.8730



16.0873, 17.2003, 22.7221



0.0000, 0.0000, 0.0000

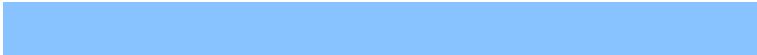


20.3446, 21.4041, 23.3091

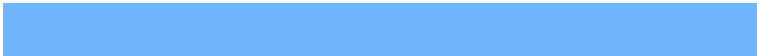


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



47.8832, 51.5704, 102.0381



41.5656, 44.2940, 100.9666



37.3137, 30.4315, 98.5150



17.7403, 18.8522, 22.9538



13.4347, 11.7790, 51.0001



1.4171, 1.3649, 5.0020



# Inverse Universe

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



60.0371, 43.0930, 56.7852



55.5402, 36.2861, 48.5446



81.5157, 94.5863, 37.6294



18.3816, 18.1359, 20.6264



23.5694, 11.9171, 11.6489

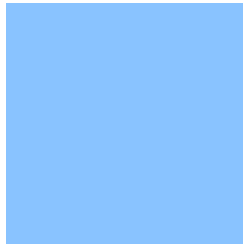


2.3499, 1.1823, 1.4240



# Previews

## White Background



This preview shows how the XYZ color 47.8816, 51.5686, 102.0378 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

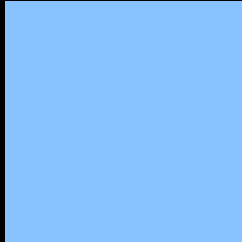
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.8816, 51.5686, 102.0378 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

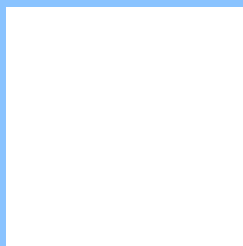
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.8816, 51.5686, 102.0378**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.8816, 51.5686, 102.0378.



This preview shows how white text looks on a background with the XYZ color 47.8816, 51.5686,



# 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

47.8816, 51.5686, 102.0378

### Protanopia

52.1028, 51.2644, 96.7714

### Deuteranopia

52.3979, 51.3067, 101.7493



## Tritanopia

42.3796, 51.7386, 74.0826

# Trichromacy



## Original Color

47.8816, 51.5686, 102.0378

## Protanomaly

50.3232, 51.2655, 98.5097

## Deuteranomaly

50.5640, 51.3160, 101.8477

## Tritanomaly

44.0531, 51.3622, 83.1934

# Monochromacy



## Original Color

47.8816, 51.5686, 102.0378

## Achromatopsia

46.1135, 48.5150, 52.8328

## Achromatomaly

45.9789, 49.3732, 68.0794

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.8816, 51.5686, 102.0378 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, 195, 255)` looks like.

```
.text, #text, p{  
    color:rgb(137, 195, 255)  
}
```

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, 195, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 195, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 47.8816, 51.5686, 102.0378 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, 195, 255) }
```



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

```
.border{ border-color:rgb(137, 195, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 195, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 195, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 195, 255);  
box-shadow:4px 4px 4px 4px rgb(137, 195,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.8816, 51.5686, 102.0378 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 195, 255) }
```

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

```
.background{ background-color: rgb(137,  
195, 255) }
```

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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