

# Converting Colors

XYZ(46.5858, 56.1575,  
102.9919)

Have a look what the booklet for  
XYZ(46.5858, 56.1575, 102.9919)  
contains.

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# **Color**

**XYZ(46.5761, 56.1380,  
102.9886)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66D2FF
RGB	102, 210, 255
RGB Percent	40%, 82%, 100%
CMY	0.6000, 0.1765, 0.0000
CMYK	0.60, 0.18, 0.00, 0.00
HSL	198°, 100%, 70%
HSV	198°, 60%, 100%
XYZ	46.5761, 56.1380, 102.9886
YIQ	182.8380, -78.8130, -8.9010

# Conversions

## Conversions Part 2

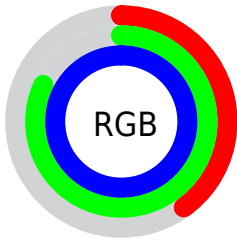
Format	Color
R <sub>Y</sub> B	102, 165, 255
Decimal	6738687
CIE Lab	79.69, -18.27, -31.34
CIE LCh	80, 36.275, 239.755
Yxy	56.1380, 0.2264, 0.2729
Android (android.graphics.Color)	4284928767 (0xFF66D2FF)
YUV	182.8380, 35.5759, -70.8949
Hunter-Lab	74.9253, -20.1576, -29.0494

# Details

The XYZ color **46.5761, 56.1380, 102.9886** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **54.0732, 43.0885, 18.0394**, and the grayscale version is **44.7652, 47.0964, 51.2880**.

A 20% lighter version of the original color is **69.1198, 86.6325, 107.6865**, and **22.1281, 27.6301, 57.5929** is the 20% darker color. If you saturate the color by 10%, you get **42.3098, 51.2550, 102.2710**, and if you desaturate by 10%, it is **51.8210, 61.6565, 103.7774**.

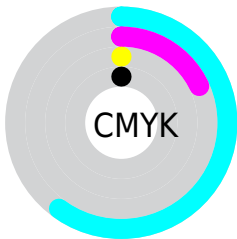
# Distribution



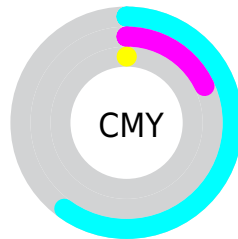
- Red (40%)
- Green (82%)
- Blue (100%)



- Red (40%)
- Yellow (65%)
- Blue (100%)



- Cyan (60%)
- Magenta (18%)
- Yellow (0%)
- Black (0%)



- Cyan (60%)
- Magenta (18%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.5761, 56.1380, 102.9886 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 46.5761, 56.1380, 102.9886 by changing the saturation by 10% instead.



46.5761, 56.1380,  
102.9886

46.5761, 56.1380,  
102.9886

363.7972,  
410.2114, 591.0608

32.9072, 40.3136,  
78.1680

84.3031, 99.2063,  
167.3458

22.2143, 27.7831,  
57.6948

109.0920,  
127.2190, 207.7194

14.1319, 18.1622,  
41.1502

138.3182,  
160.0632, 254.1145

8.2948, 11.0665,  
28.1159

172.3471,  
198.1234, 306.9497

4.3375, 6.1116,  
18.1732

211.5441,  
241.7839, 366.6433

1.8948, 2.9131,  
10.9037

256.2746,

0.5738, 1.0865,

291.4291, 433.6140

5.8888

306.9038,  
347.4435, 508.2803

■ 0.0000, 0.0000,  
2.7099

■ 0.0000, 0.0000,  
0.9484

■ 46.5761, 56.1380,  
102.9886

■ 46.5761, 56.1380,  
102.9886

■ 42.3098, 51.2550,  
102.2710

■ 51.8210, 61.6565,  
103.7774

■ 38.9315, 46.9557,  
101.6192

■ 58.1144, 67.8451,  
104.6402

■ 36.3409, 43.1878,  
101.0285

■ 65.5252, 74.7419,  
105.5808

■ 34.3721, 39.8640,  
100.4907

■ 74.1149, 82.3802,  
106.6024

■ 34.3715, 39.8630,  
100.4905

■ 83.9401, 90.7910,  
107.7080

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

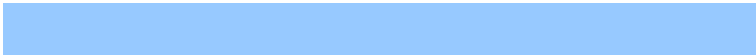
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



42.0453, 56.1380, 83.3970



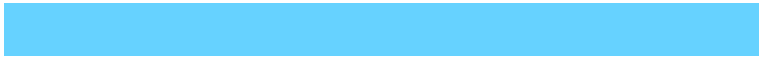
46.5761, 56.1380, 102.9886



53.2974, 56.1380, 110.9558

# Triad

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



46.5761, 56.1380, 102.9886



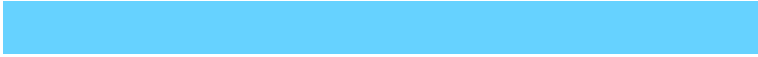
68.7094, 56.1380, 61.2971



46.6713, 56.1380, 32.3789

# Complementary

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



46.5761, 56.1380, 102.9886



54.0732, 43.0885, 18.0394

# 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.



53.4176, 56.1380, 29.0222



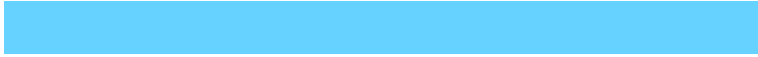
46.5761, 56.1380, 102.9886



66.5360, 56.1380, 43.2193

# Square

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



46.5761, 56.1380, 102.9886



66.4663, 56.1380, 83.7644



60.7671, 56.1380, 32.4917



42.0966, 56.1380, 42.9830



# Rectangle

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



46.5761, 56.1380, 102.9886



58.2587, 56.1380, 107.4626



60.7671, 56.1380, 32.4917



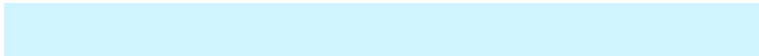
48.7392, 56.1380, 30.4902

# Sweetspot

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



46.5778, 56.1400, 102.9889



75.9764, 83.9970, 106.8164



46.3787, 76.4006, 39.2345



15.6850, 17.4767, 22.7966



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.



46.5778, 56.1400, 102.9889



41.5648, 50.3485, 102.1353



32.2162, 27.4169, 98.2017



18.0772, 19.5260, 23.0661



18.0956, 21.1008, 52.5537



1.8567, 2.2441, 5.1486



# Inverse Universe

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



57.6254, 35.4176, 64.7739



54.0615, 30.0346, 58.2068



69.7206, 74.3833, 23.2552



18.5516, 18.2040, 21.5220



25.9220, 12.8581, 24.0376

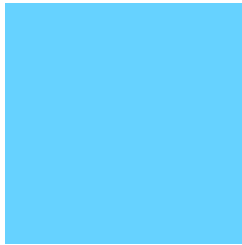


2.5718, 1.2711, 2.5924



# Previews

## White Background



This preview shows how the XYZ color 46.5761, 56.1380, 102.9886 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

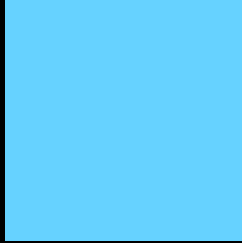
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.5761, 56.1380, 102.9886 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

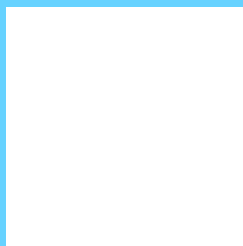
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 46.5761, 56.1380, 102.9886

## Background



This preview shows how black text looks on a background with the XYZ color 46.5761, 56.1380, 102.9886.



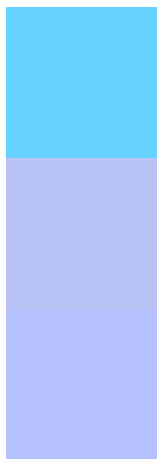
This preview shows how white text looks on a background with the XYZ color 46.5761, 56.1380,



# 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

46.5761, 56.1380, 102.9886

### Protanopia

55.3881, 55.3056, 93.3437

### Deuteranopia

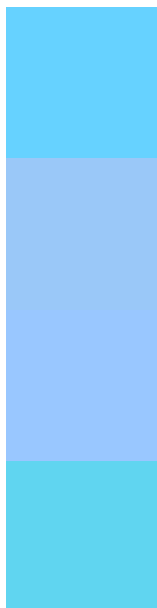
56.4114, 55.3050, 102.3095



## Tritanopia

42.8840, 56.1380, 84.1768

# Trichromacy



## Original Color

46.5761, 56.1380, 102.9886

## Protanomaly

50.9240, 54.9559, 96.7305

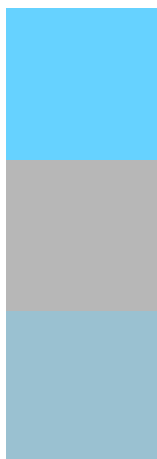
## Deuteranomaly

51.6103, 54.8392, 102.4726

## Tritanomaly

44.3463, 56.3666, 90.9806

# Monochromacy



## Original Color

46.5761, 56.1380, 102.9886

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

43.9050, 49.6134, 67.5839

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.5761, 56.1380, 102.9886 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(102, 210, 255)` looks like.

```
.text, #text, p{  
    color:rgb(102, 210, 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(102, 210, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 210, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 46.5761, 56.1380, 102.9886 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(102, 210, 255) }
```



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

```
.border{ border-color:rgb(102, 210, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 210, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 210, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 210, 255);  
box-shadow:4px 4px 4px 4px rgb(102, 210,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.5761, 56.1380, 102.9886 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 210, 255) }
```

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

```
.background{ background-color: rgb(102,  
210, 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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