

# Converting Colors

XYZ(46.9559, 51.6163, 78.2943)

Have a look what the booklet for  
XYZ(46.9559, 51.6163, 78.2943)  
contains.

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# **Color**

**XYZ(46.8743, 51.5801,  
78.0064)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9DC3E0
RGB	157, 195, 224
RGB Percent	62%, 76%, 88%
CMY	0.3843, 0.2353, 0.1216
CMYK	0.30, 0.13, 0.00, 0.12
HSL	206°, 52%, 75%
HSV	206°, 30%, 88%
XYZ	46.8743, 51.5801, 78.0064
YIQ	186.9440, -31.9570, 0.9630

# Conversions

## Conversions Part 2

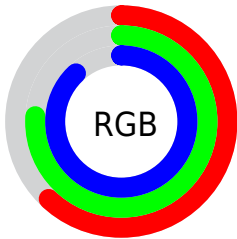
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	157, 181, 224
Decimal	10339296
CIE Lab	77.03, -5.95, -18.56
CIE LCh	77, 19.495, 252.222
Yxy	51.5801, 0.2656, 0.2923
Android (android.graphics.Color)	4288529376 (0xFF9DC3E0)
YUV	186.9440, 18.2686, -26.2609
Hunter-Lab	71.8193, -9.1821, -14.1242

# Details

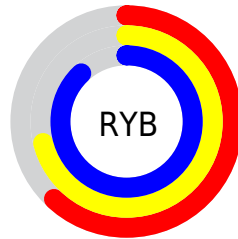
The XYZ color **46.8743, 51.5801, 78.0064** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **54.3860, 53.4001, 39.3406**, and the grayscale version is **47.1170, 49.5707, 53.9825**.

A 20% lighter version of the original color is **80.3010, 90.9869, 107.9377**, and **22.3952, 24.8574, 41.1537** is the 20% darker color. If you saturate the color by 10%, you get **40.7962, 45.3271, 77.1207**, and if you desaturate by 10%, it is **53.8978, 58.5324, 78.9790**.

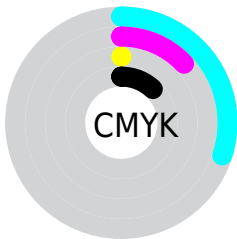
# Distribution



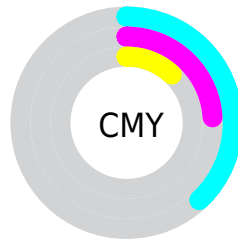
- Red (62%)
- Green (76%)
- Blue (88%)



- Red (62%)
- Yellow (71%)
- Blue (88%)



- Cyan (30%)
- Magenta (13%)
- Yellow (0%)
- Black (12%)



- Cyan (38%)
- Magenta (24%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.8743, 51.5801, 78.0064 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 46.8743, 51.5801, 78.0064 by changing the saturation by 10% instead.



■ 46.8743, 51.5801,  
78.0064

■ 46.8743, 51.5801,  
78.0064

364.9699,  
392.8134, 507.7171

■ 33.1438, 36.6705,  
57.5628

■ 84.7458, 92.5117,  
132.3451

■ 22.3964, 24.9525,  
41.0449

■ 109.6176,  
119.3024, 167.0772

■ 14.2667, 16.0416,  
28.0342

138.9339,  
150.8224, 207.4093

■ 8.3893, 9.5536,  
18.1122

173.0600,  
187.4559, 253.7598

■ 4.3990, 5.1040,  
10.8603

212.3613,  
229.5873, 306.5473

■ 1.9302, 2.3084,  
5.8600

257.2031,

■ 0.5943, 0.7782,

277.6011, 366.1903

2.6927

307.9509,  
331.8817, 433.1074

■ 0.0000, 0.0000,  
0.9398

■ 0.0000, 0.0000,  
0.0000

■ 46.8743, 51.5801,  
78.0064

■ 46.8743, 51.5801,  
78.0064

■ 40.7962, 45.3271,  
77.1207

■ 53.8978, 58.5324,  
78.9790

■ 35.6123, 39.7393,  
76.3153

■ 61.9051, 66.2037,  
80.0377

■ 31.2734, 34.7884,  
75.5884

■ 70.9379, 74.6208,  
81.1863

■ 27.7231, 30.4414,  
74.9365

■ 81.0342, 83.8068,  
82.4272

■ 24.8975, 26.6608,  
74.3557

■ 86.8888, 91.0301,  
83.5129

■ 22.7210, 23.4033,  
73.8416

■ 89.8750, 97.0024,  
84.5083

■ 21.0645, 20.5976,  
73.3874

■ 90.4547, 98.1619,  
84.7015

■ 21.0506, 20.5737,  
73.3835

# Harmonies

## Analogous

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



43.9184, 51.5801, 71.0780



46.8743, 51.5801, 78.0064



50.5547, 51.5801, 78.6478

# Triad

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



46.8743, 51.5801, 78.0064



56.3510, 51.5801, 51.9374



44.3755, 51.5801, 42.3208

# Complementary

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



46.8743, 51.5801, 78.0064



54.3860, 53.4001, 39.3406

# 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.



47.5272, 51.5801, 38.4311



46.8743, 51.5801, 78.0064



54.5135, 51.5801, 43.4939

# Square

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



46.8743, 51.5801, 78.0064



56.1544, 51.5801, 62.6497



51.2412, 51.5801, 38.8314



42.5267, 51.5801, 50.1384



# Rectangle

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



46.8743, 51.5801, 78.0064



52.9376, 51.5801, 75.3289



51.2412, 51.5801, 38.8314



45.3107, 51.5801, 40.5578

# Sweetspot

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



46.8759, 51.5821, 78.0076



84.0176, 89.7295, 107.4991



49.3097, 63.9798, 55.6046



17.6245, 18.8671, 22.9628



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

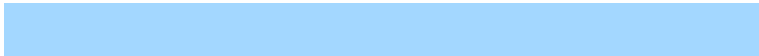


# Same Dimension

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



46.8759, 51.5821, 78.0076



57.5639, 63.7650, 103.8817



40.3839, 38.5981, 75.8436



13.5940, 14.5271, 17.4752



12.3692, 12.2080, 42.7528



0.9459, 1.0232, 2.9929



# Inverse Universe

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



52.6491, 43.9028, 57.3311



66.6729, 52.4455, 71.0794



62.0069, 68.6418, 41.8809



14.0313, 13.8301, 15.9349



20.1836, 10.1404, 12.8985

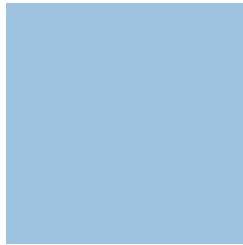


1.4437, 0.7207, 1.1293



# Previews

## White Background



This preview shows how the XYZ color 46.8743, 51.5801, 78.0064 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

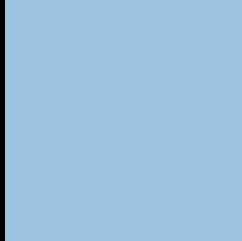
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.8743, 51.5801, 78.0064 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

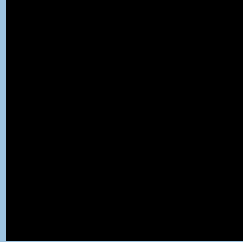
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

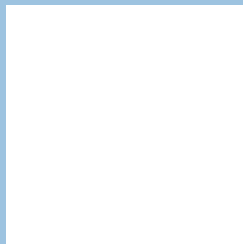
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.8743, 51.5801, 78.0064**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.8743, 51.5801, 78.0064.



This preview shows how white text looks on a background with the XYZ color 46.8743, 51.5801,



# 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

46.8743, 51.5801, 78.0064

### Protanopia

50.5366, 51.2713, 74.2506

### Deuteranopia

52.3116, 51.1361, 79.0646



## Tritanopia

45.3029, 51.6066, 70.5241

# Trichromacy



## Original Color

46.8743, 51.5801, 78.0064

## Protanomaly

49.1375, 51.4807, 75.7536

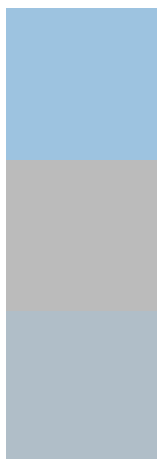
## Deuteranomaly

50.1483, 51.2964, 78.4923

## Tritanomaly

45.7819, 51.4582, 73.1651

# Monochromacy



## Original Color

46.8743, 51.5801, 78.0064

## Achromatopsia

47.2335, 49.6933, 54.1160

## Achromatomaly

46.7433, 50.2271, 61.8748

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.8743, 51.5801, 78.0064 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(157, 195, 224)` looks like.

```
.text, #text, p{  
    color:rgb(157, 195, 224)  
}
```

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(157, 195, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 195, 224) }
```

## Border

The CSS property to change the border of an element to XYZ 46.8743, 51.5801, 78.0064 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".

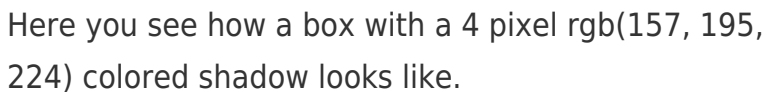
```
.border, #border, table{ border:4px solid rgb(157, 195, 224) }
```



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

```
.border{ border-color:rgb(157, 195, 224) }
```

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



Here you see how a box with a 4 pixel `rgb(157, 195, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(157, 195, 224); -webkit-box-shadow:4px 4px 4px 4px rgb(157, 195, 224); box-shadow:4px 4px 4px 4px rgb(157, 195, 224) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.8743, 51.5801, 78.0064 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 195, 224) }
```

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

```
.background{ background-color: rgb(157,  
195, 224) }
```

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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