

# Converting Colors

XYZ(46.8497, 45.8235, 82.3043)

Have a look what the booklet for  
XYZ(46.8497, 45.8235, 82.3043)  
contains.

<b>XYZ(46.7235, 45.7599, 81.9712)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(46.7235, 45.7599,  
81.9712)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAB1E7
RGB	170, 177, 231
RGB Percent	67%, 69%, 91%
CMY	0.3333, 0.3059, 0.0941
CMYK	0.26, 0.23, 0.00, 0.09
HSL	233°, 56%, 79%
HSV	233°, 26%, 91%
XYZ	46.7235, 45.7599, 81.9712
YIQ	181.0630, -21.5060, 15.3100

# Conversions

## Conversions Part 2

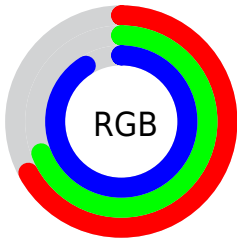
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	170, 176, 231
Decimal	11186663
CIE Lab	73.39, 9.31, -27.82
CIE LCh	73, 29.338, 288.505
Yxy	45.7599, 0.2678, 0.2623
Android (android.graphics.Color)	4289376743 (0xFFAAB1E7)
YUV	181.0630, 24.6189, -9.7023
Hunter-Lab	67.6461, 4.9103, -24.4934

# Details

The XYZ color **46.7235, 45.7599, 81.9712** is a light color, and the websafe version is hex **9999CC**. A complement of this color would be **66.8669, 73.2027, 48.6368**, and the grayscale version is **43.8357, 46.1186, 50.2231**.

A 20% lighter version of the original color is **78.5529, 81.6666, 106.2308**, and **22.2739, 21.4754, 43.5286** is the 20% darker color. If you saturate the color by 10%, you get **38.4209, 35.9273, 80.5117**, and if you desaturate by 10%, it is **56.5117, 57.2589, 83.6756**.

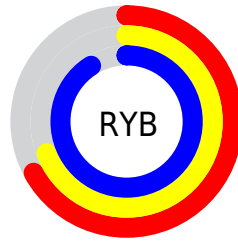
# Distribution



Red (67%)

Green (69%)

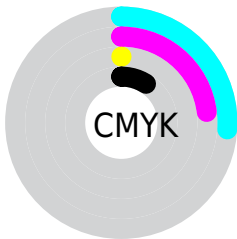
Blue (91%)



Red (67%)

Yellow (69%)

Blue (91%)

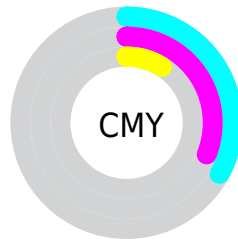


Cyan (26%)

Magenta (23%)

Yellow (0%)

Black (9%)



Cyan (33%)

Magenta (31%)

Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.7235, 45.7599, 81.9712 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 46.7235, 45.7599, 81.9712 by changing the saturation by 10% instead.



■ 46.7235, 45.7599,  
81.9712

■ 46.7235, 45.7599,  
81.9712

364.3771,  
369.8425, 521.4323

■ 33.0242, 32.0564,  
60.8061

■ 84.5220, 83.8596,  
137.9699

■ 22.3043, 21.4046,  
43.6392

109.3519,  
109.0245, 173.6407

■ 14.1985, 13.4201,  
30.0518

138.6226,  
138.7787, 214.9837

■ 8.3415, 7.7184,  
19.6256

172.6996,  
173.5066, 262.4176

■ 4.3679, 3.9153,  
11.9418

211.9482,  
213.5925, 316.3608

■ 1.9123, 1.6263,  
6.5820

256.7338,

■ 0.5840, 0.3752,

259.4209, 377.2320

3.1276

307.4216,  
311.3761, 445.4496

■ 0.0000, 0.0000,  
1.1602

■ 0.0000, 0.0000,  
0.0000

■ 46.7235, 45.7599,  
81.9712

■ 46.7235, 45.7599,  
81.9712

■ 38.4209, 35.9273,  
80.5117

■ 56.5117, 57.2589,  
83.6756

■ 31.5267, 27.6782,  
79.2828

■ 67.8487, 70.4911,  
85.6322

■ 25.9635, 20.9311,  
78.2737

■ 80.7995, 85.5263,  
87.8517

■ 21.6444, 15.5946,  
77.4713

■ 91.4239, 98.5496,  
89.8054

■ 18.4722, 11.5675,  
76.8612

■ 16.3349, 8.7346,  
76.4270

■ 15.0960, 6.9594,  
76.1497

■ 14.8048, 6.5313,  
76.0824

# Harmonies

## Analogous

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



41.5434, 45.7599, 83.2324



46.7235, 45.7599, 81.9712



51.3675, 45.7599, 71.1546

# Triad

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



46.7235, 45.7599, 81.9712



50.4137, 45.7599, 31.4069



34.4659, 45.7599, 44.3667

# Complementary

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



46.7235, 45.7599, 81.9712



66.8669, 73.2027, 48.6368

# 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.



36.4682, 45.7599, 33.2503



46.7235, 45.7599, 81.9712



45.5036, 45.7599, 26.8197

# Square

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



46.7235, 45.7599, 81.9712



53.6116, 45.7599, 41.3286



40.4157, 45.7599, 27.4199



34.7358, 45.7599, 59.4121



# Rectangle

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



46.7235, 45.7599, 81.9712



53.4080, 45.7599, 60.9950



40.4157, 45.7599, 27.4199



34.8887, 45.7599, 40.1090

# Sweetspot

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



46.7250, 45.7617, 81.9723



82.4462, 85.3486, 106.7363



58.5932, 71.0743, 81.0694



17.1709, 17.7133, 22.7640



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.



46.7250, 45.7617, 81.9723



52.2574, 49.9203, 101.4891



50.8899, 45.9082, 81.7810



13.7154, 14.1522, 18.1531



8.3450, 3.7522, 42.6676



0.6611, 0.3661, 3.1678



# Inverse Universe

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



55.2667, 48.9140, 48.1254



64.7833, 54.7099, 51.8176



61.7374, 73.4094, 48.9471



14.4439, 14.3948, 15.2721



18.6057, 9.5765, 1.5526

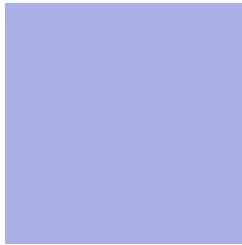


1.3973, 0.7166, 0.2328



# Previews

## White Background



This preview shows how the XYZ color 46.7235, 45.7599, 81.9712 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

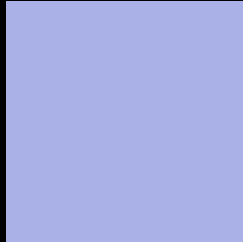
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.7235, 45.7599, 81.9712 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

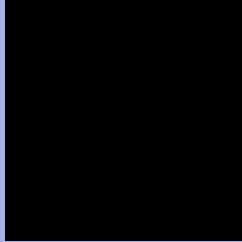
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 46.7235, 45.7599, 81.9712

## Background



This preview shows how black text looks on a background with the XYZ color 46.7235, 45.7599, 81.9712.



This preview shows how white text looks on a background with the XYZ color 46.7235, 45.7599,



# 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

46.7235, 45.7599, 81.9712

### Protanopia

46.2118, 45.7740, 82.7436

### Deuteranopia

46.9405, 45.8717, 81.9814



## Tritanopia

42.2308, 45.7307, 60.0272

# Trichromacy



## Original Color

46.7235, 45.7599, 81.9712

## Protanomaly

46.4222, 45.8825, 82.7534

## Deuteranomaly

46.9405, 45.8717, 81.9814

## Tritanomaly

43.8826, 45.8079, 67.5017

# Monochromacy



## Original Color

46.7235, 45.7599, 81.9712

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

44.7615, 46.1131, 60.5744

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.7235, 45.7599, 81.9712 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(170, 177, 231)` looks like.

```
.text, #text, p{  
    color:rgb(170, 177, 231)  
}
```

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(170, 177, 231) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 177, 231) }
```

## Border

The CSS property to change the border of an element to XYZ 46.7235, 45.7599, 81.9712 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(170, 177, 231) }
```



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

```
.border{ border-color:rgb(170, 177, 231) }
```

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

Here you see how a box with a 4 pixel rgb(170, 177, 231) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 177, 231); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 177, 231);  
box-shadow:4px 4px 4px 4px rgb(170, 177,  
231) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.7235, 45.7599, 81.9712 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 177, 231) }
```

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

```
.background{ background-color: rgb(170,  
177, 231) }
```

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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