

# Converting Colors

XYZ(39.6982, 42.4010, 83.1838)

Have a look what the booklet for  
XYZ(39.6982, 42.4010, 83.1838)  
contains.

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# Color

**XYZ(39.6816, 42.3911,  
83.1817)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	81B2E9
RGB	129, 178, 233
RGB Percent	51%, 70%, 91%
CMY	0.4941, 0.3019, 0.0863
CMYK	0.45, 0.24, 0.00, 0.09
HSL	212°, 70%, 71%
HSV	212°, 45%, 91%
XYZ	39.6816, 42.3911, 83.1817
YIQ	169.6190, -46.8590, 6.7170

# Conversions

## Conversions Part 2

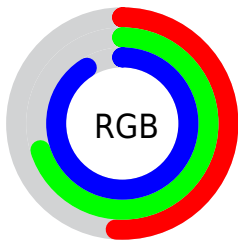
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">129, 162, 233</a>
Decimal	<a href="#">8499945</a>
<a href="#">CIELab</a>	<a href="#">71.14, -1.90, -32.59</a>
<a href="#">CIELCh</a>	<a href="#">71, 32.647, 266.655</a>
<a href="#">Yxy</a>	<a href="#">42.3911, 0.2401, 0.2565</a>
Android ( <code>android.graphics.Color</code> )	<a href="#">4286690025</a> ( <code>0xFF81B2E9</code> )
<a href="#">YUV</a>	<a href="#">169.6190, 31.2468, -35.6229</a>
<a href="#">Hunter-Lab</a>	<a href="#">65.1084, -5.1495, -30.1722</a>

# Details

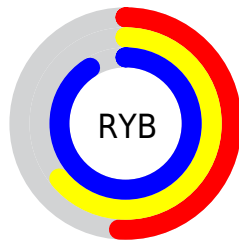
The XYZ color **39.6816, 42.3911, 83.1817** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **54.7084, 53.1909, 28.1538**, and the grayscale version is **37.8865, 39.8595, 43.4070**.

A 20% lighter version of the original color is **67.7225, 76.5047, 105.8053**, and **18.1443, 19.5125, 44.4050** is the 20% darker color. If you saturate the color by 10%, you get **34.1952, 36.0859, 82.2546**, and if you desaturate by 10%, it is **46.1980, 49.5560, 84.2220**.

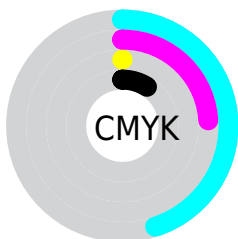
# Distribution



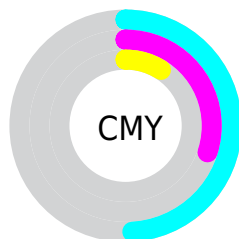
- Red (51%)
- Green (70%)
- Blue (91%)



- Red (51%)
- Yellow (64%)
- Blue (91%)



- Cyan (45%)
- Magenta (24%)
- Yellow (0%)
- Black (9%)



- Cyan (49%)
- Magenta (30%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.6816, 42.3911, 83.1817 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 39.6816, 42.3911, 83.1817 by changing the saturation by 10% instead.



■ 39.6816, 42.3911,  
83.1817

■ 39.6816, 42.3911,  
83.1817

335.9372,  
356.1016, 525.5787

■ 27.4735, 29.4077,  
61.7986

■ 73.9658, 78.7912,  
139.6814

■ 18.0676, 19.3894,  
44.4352

■ 96.7727, 102.9766,  
175.6351

■ 11.0985, 11.9520,  
30.6731

■ 123.8432,  
131.6649, 217.2827

■ 6.2009, 6.7110,  
20.0937

155.5426,  
165.2403, 265.0428

■ 3.0094, 3.2820,  
12.2784

192.2364,  
204.0873, 319.3339

■ 1.1588, 1.2807,  
6.8087

234.2898,

■ 0.0734, 0.1262,

248.5902, 380.5746

3.2662

282.0683,  
299.1336, 449.1833

■ 0.0000, 0.0000,  
1.2321

■ 0.0000, 0.0000,  
0.0051

■ 39.6816, 42.3911,  
83.1817

■ 39.6816, 42.3911,  
83.1817

■ 34.1952, 36.0859,  
82.2546

■ 46.1980, 49.5560,  
84.2220

■ 29.6731, 30.5953,  
81.4332

■ 53.7960, 57.6128,  
85.3766

■ 26.0482, 25.8768,  
80.7135

■ 62.5287, 66.5976,  
86.6506

■ 23.2416, 21.8802,  
80.0900

■ 72.4440, 76.5430,  
88.0477

■ 21.1576, 18.5465,  
79.5563

■ 83.5872, 87.4796,  
89.5714

■ 20.2603, 16.9876,  
79.3027

■ 90.7384, 96.7237,  
90.9787

■ 91.7081, 98.6633,  
91.3020

# Harmonies

## Analogous

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



34.7880, 42.3911, 76.1313



39.6816, 42.3911, 83.1817



45.1910, 42.3911, 78.6084

# Triad

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



39.6816, 42.3911, 83.1817



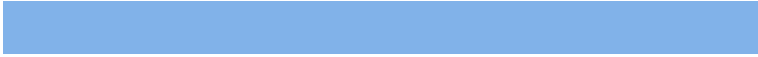
50.4294, 42.3911, 33.9312



32.1366, 42.3911, 31.5143

# Complementary

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



39.6816, 42.3911, 83.1817



54.7084, 53.1909, 28.1538

# 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.



35.7595, 42.3911, 24.1497



39.6816, 42.3911, 83.1817



46.3468, 42.3911, 25.3076

# Square

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



39.6816, 42.3911, 83.1817



51.7162, 42.3911, 47.9346



40.9076, 42.3911, 22.1637



30.6869, 42.3911, 44.4234



# Rectangle

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



39.6816, 42.3911, 83.1817



48.4251, 42.3911, 70.0429



40.9076, 42.3911, 22.1637



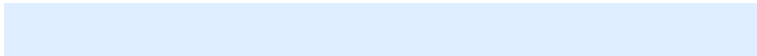
33.1237, 42.3911, 28.4312

# Sweetspot

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



39.6830, 42.3927, 83.1827



78.5484, 83.5661, 106.5977



46.7129, 66.3538, 55.0013



16.2666, 17.3328, 22.7382



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

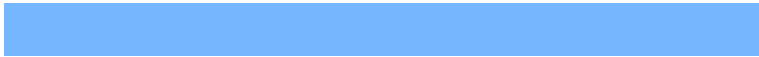


# Same Dimension

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



39.6830, 42.3927, 83.1827



42.1909, 44.5516, 100.9834



31.8784, 26.3893, 80.5051



14.8164, 15.7193, 19.1755



11.6180, 9.8830, 45.0382



1.0079, 0.9673, 3.5685



# Inverse Universe

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



49.4916, 36.2399, 46.5075



56.0982, 37.4374, 48.6220



66.1435, 76.8971, 32.1269



15.3609, 15.1722, 17.1858



20.7195, 10.4905, 9.5903

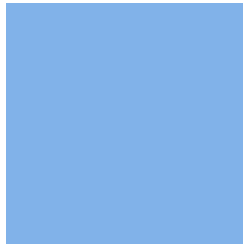


1.6752, 0.8431, 1.0072



# Previews

## White Background



This preview shows how the XYZ color 39.6816, 42.3911, 83.1817 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

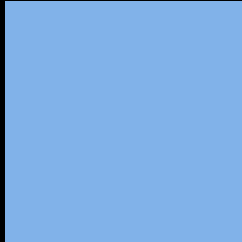
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.6816, 42.3911, 83.1817 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

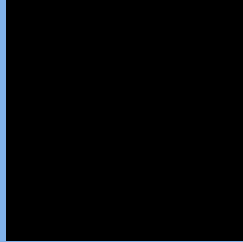
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

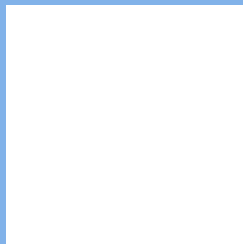
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 39.6816, 42.3911, 83.1817**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.6816, 42.3911, 83.1817.



This preview shows how white text looks on a background with the XYZ color 39.6816, 42.3911,



# 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

39.6816, 42.3911, 83.1817

### Protanopia

42.6671, 41.9964, 79.2561

### Deuteranopia

43.2686, 42.1919, 84.4606



## Tritanopia

35.0570, 42.3264, 60.3549

# Trichromacy



## Original Color

39.6816, 42.3911, 83.1817

## Protanomaly

41.4516, 42.1883, 80.8213

## Deuteranomaly

41.8414, 42.3236, 83.8059

## Tritanomaly

36.6542, 42.3700, 67.8744

# Monochromacy



## Original Color

39.6816, 42.3911, 83.1817

## Achromatopsia

38.2080, 40.1978, 43.7754

## Achromatomaly

38.0868, 40.7060, 56.3017

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.6816, 42.3911, 83.1817 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(129, 178, 233)` looks like.

```
.text, #text, p{  
    color:rgb(129, 178, 233)  
}
```

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(129, 178, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 178, 233) }
```

## Border

The CSS property to change the border of an element to XYZ 39.6816, 42.3911, 83.1817 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(129, 178, 233) }
```



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

```
.border{ border-color:rgb(129, 178, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 178, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 178, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 178, 233);  
box-shadow:4px 4px 4px 4px rgb(129, 178,  
233) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.6816, 42.3911, 83.1817 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 178, 233) }
```

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

```
.background{ background-color: rgb(129,  
178, 233) }
```

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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