

# Converting Colors

XYZ(35.8180, 36.3593, 77.7671)

Have a look what the booklet for  
XYZ(35.8180, 36.3593, 77.7671)  
contains.

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# Color

**XYZ(35.8644, 36.3296,  
77.7951)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80A3E3
RGB	128, 163, 227
RGB Percent	50%, 64%, 89%
CMY	0.4980, 0.3608, 0.1098
CMYK	0.44, 0.28, 0.00, 0.11
HSL	219°, 64%, 70%
HSV	219°, 44%, 89%
XYZ	35.8644, 36.3296, 77.7951
YIQ	159.8310, -41.4040, 12.4840

# Conversions

## Conversions Part 2

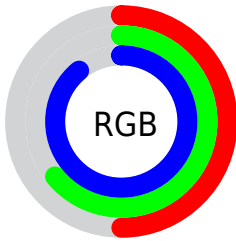
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	128, 154, 227
Decimal	8430563
CIE <sub>Lab</sub>	66.77, 4.54, -36.09
CIE <sub>LCh</sub>	67, 36.373, 277.166
Yxy	36.3296, 0.2391, 0.2422
Android (android.graphics.Color)	4286620643 (0xFF80A3E3)
YUV	159.8310, 33.1143, -27.9158
Hunter-Lab	60.2740, 0.7319, -34.3332

# Details

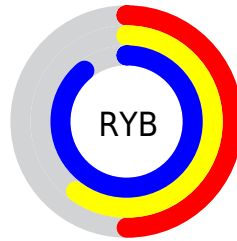
The XYZ color **35.8644, 36.3296, 77.7951** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **54.4257, 55.5902, 28.2851**, and the grayscale version is **33.2030, 34.9321, 38.0411**.

A 20% lighter version of the original color is **62.8886, 67.5532, 104.3322**, and **15.8173, 15.9063, 40.7646** is the 20% darker color. If you saturate the color by 10%, you get **30.3681, 29.8506, 76.8349**, and if you desaturate by 10%, it is **42.4293, 43.8098, 78.8936**.

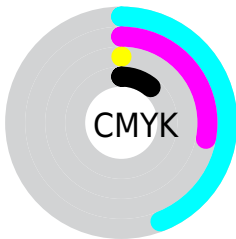
# Distribution



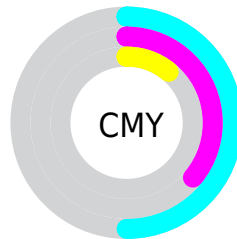
- Red (50%)
- Green (64%)
- Blue (89%)



- Red (50%)
- Yellow (60%)
- Blue (89%)



- Cyan (44%)
- Magenta (28%)
- Yellow (0%)
- Black (11%)



- Cyan (50%)
- Magenta (36%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.8644, 36.3296, 77.7951 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 35.8644, 36.3296, 77.7951 by changing the saturation by 10% instead.



■ 35.8644, 36.3296,  
77.7951

■ 35.8644, 36.3296,  
77.7951

319.8091,  
330.3989, 506.9802

■ 24.4991, 24.6889,  
57.3902

■ 68.1480, 69.5405,  
132.0445

■ 15.8310, 15.8454,  
40.9072

■ 89.7969, 91.8794,  
166.7261

■ 9.4947, 9.4148,  
27.9274

■ 115.6045,  
118.5532, 207.0036

■ 5.1249, 5.0127,  
18.0324

145.9361,  
149.9463, 253.2957

■ 2.3563, 2.2547,  
10.8036

181.1570,  
186.4430, 306.0209

■ 0.8232, 0.7496,  
5.8224

221.6325,

■ 0.0000, 0.0000,

228.4277, 365.5976

2.6703

267.7281,  
276.2849, 432.4446

■ 0.0000, 0.0000,  
0.9284

■ 0.0000, 0.0000,  
0.0000

■ 35.8644, 36.3296,  
77.7951

■ 35.8644, 36.3296,  
77.7951

■ 30.3681, 29.8506,  
76.8349

■ 42.4293, 43.8098,  
78.8936

■ 25.8749, 24.3215,  
76.0045

■ 50.1156, 52.3308,  
80.1332

■ 22.3171, 19.6921,  
75.2984

■ 58.9769, 61.9349,  
81.5199

■ 19.6164, 15.9049,  
74.7098

■ 69.0623, 72.6605,  
83.0586

■ 17.6791, 12.8932,  
74.2306

■ 80.4177, 84.5443,  
84.7539

■ 16.7524, 11.3203,  
73.9758

■ 89.6188, 95.8331,  
86.4480

■ 90.8653, 98.3261,  
86.8634

# Harmonies

## Analogous

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



30.5918, 36.3296, 74.4930



35.8644, 36.3296, 77.7951



41.3114, 36.3296, 68.8863

# Triad

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



35.8644, 36.3296, 77.7951



43.6484, 36.3296, 23.9536



25.6827, 36.3296, 28.9420

# Complementary

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



35.8644, 36.3296, 77.7951



54.4257, 55.5902, 28.2851

# 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.



28.5349, 36.3296, 20.0180



35.8644, 36.3296, 77.7951



38.7929, 36.3296, 17.7164

# Square

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



35.8644, 36.3296, 77.7951



46.1044, 36.3296, 35.9026



33.2295, 36.3296, 16.4963



25.0759, 36.3296, 43.4509



# Rectangle

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



35.8644, 36.3296, 77.7951



44.1859, 36.3296, 58.3272



33.2295, 36.3296, 16.4963



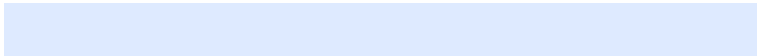
26.3948, 36.3296, 25.3190

# Sweetspot

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



35.8657, 36.3309, 77.7960



77.4287, 81.3267, 106.2244



45.7433, 63.2767, 58.9213



15.9914, 16.7825, 22.6465



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

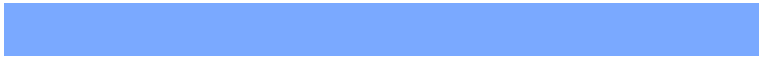


# Same Dimension

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



35.8657, 36.3309, 77.7960



40.3725, 39.8663, 100.1748



32.6042, 26.6662, 76.1024



13.9976, 14.7166, 18.2472



9.8695, 6.8011, 43.1757



0.8143, 0.6726, 3.2189



# Inverse Universe

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



46.0097, 34.4150, 38.8693



55.4363, 38.1525, 42.1154



59.0395, 70.7636, 30.9706



14.5864, 14.4517, 16.0223



19.3752, 9.8843, 5.6047

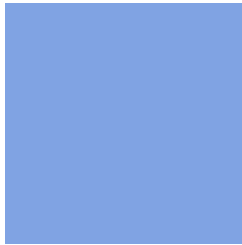


1.4747, 0.7476, 0.6401



# Previews

## White Background



This preview shows how the XYZ color 35.8644, 36.3296, 77.7951 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

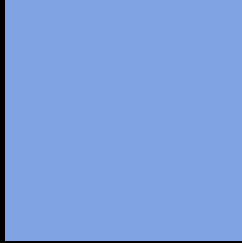
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.8644, 36.3296, 77.7951 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

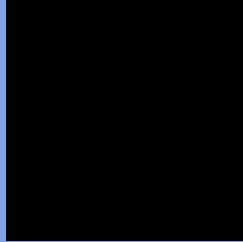
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 35.8644, 36.3296, 77.7951**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.8644, 36.3296, 77.7951.



This preview shows how white text looks on a background with the XYZ color 35.8644, 36.3296,



# 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

35.8644, 36.3296, 77.7951

### Protanopia

37.1807, 36.2742, 75.5630

### Deuteranopia

37.2219, 36.2320, 78.4305



## Tritanopia

30.5223, 36.3416, 51.3049

# Trichromacy



## Original Color

35.8644, 36.3296, 77.7951

## Protanomaly

36.6520, 36.2443, 76.2983

## Deuteranomaly

36.7401, 36.2421, 78.4578

## Tritanomaly

32.1737, 36.1685, 59.9291

# Monochromacy



## Original Color

35.8644, 36.3296, 77.7951

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

33.6093, 35.2463, 50.3792

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.8644, 36.3296, 77.7951 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(128, 163, 227)` looks like.

```
.text, #text, p{  
    color:rgb(128, 163, 227)  
}
```

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(128, 163, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 163, 227) }
```

## Border

The CSS property to change the border of an element to XYZ 35.8644, 36.3296, 77.7951 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(128, 163, 227) }
```



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

```
.border{ border-color:rgb(128, 163, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 163, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 163, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 163, 227);  
box-shadow:4px 4px 4px 4px rgb(128, 163,  
227) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.8644, 36.3296, 77.7951 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 163, 227) }
```

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

```
.background{ background-color: rgb(128,  
163, 227) }
```

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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