

# Converting Colors

XYZ(35.1230, 37.6144, 78.6383)

Have a look what the booklet for  
XYZ(35.1230, 37.6144, 78.6383)  
contains.

<b>XYZ(35.1310, 37.5548, 78.7960)</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(35.1310, 37.5548,  
78.7960)**

# Conversions

## Conversions Part 1

Format	Color
Hex	72A9E4
RGB	114, 169, 228
RGB Percent	45%, 66%, 89%
CMY	0.5529, 0.3372, 0.1059
CMYK	0.50, 0.26, 0.00, 0.11
HSL	211°, 68%, 67%
HSV	211°, 50%, 89%
XYZ	35.1310, 37.5548, 78.7960
YIQ	159.2810, -51.7190, 6.6890

# Conversions

## Conversions Part 2

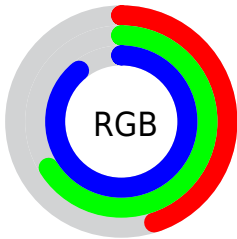
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">114, 151, 228</a>
Decimal	<a href="#">7514596</a>
CIELab	<a href="#">67.69, -1.91, -35.27</a>
CIELCh	<a href="#">68, 35.317, 266.901</a>
Yxy	<a href="#">37.5548, 0.2319, 0.2479</a>
Android (android.graphics.Color)	<a href="#">4285704676 (0xFF72A9E4)</a>
YUV	<a href="#">159.2810, 33.8785, -39.7114</a>
Hunter-Lab	<a href="#">61.2820, -4.9151, -33.3374</a>

# Details

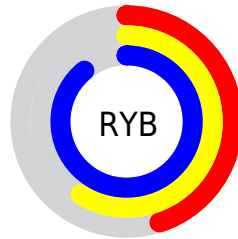
The XYZ color **35.1310, 37.5548, 78.7960** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **49.9770, 47.5977, 22.4744**, and the grayscale version is **32.9511, 34.6672, 37.7525**.

A 20% lighter version of the original color is **61.5002, 69.1892, 104.7212**, and **15.3832, 16.5134, 41.4063** is the 20% darker color. If you saturate the color by 10%, you get **30.4296, 32.0186, 77.9759**, and if you desaturate by 10%, it is **40.7722, 43.8710, 79.7185**.

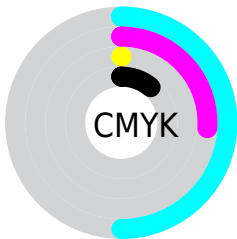
# Distribution



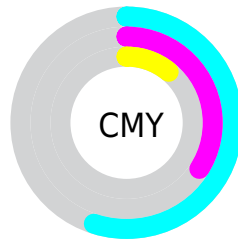
- Red (45%)
- Green (66%)
- Blue (89%)



- Red (45%)
- Yellow (59%)
- Blue (89%)



- Cyan (50%)
- Magenta (26%)
- Yellow (0%)
- Black (11%)



- Cyan (55%)
- Magenta (34%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.1310, 37.5548, 78.7960 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 35.1310, 37.5548, 78.7960 by changing the saturation by 10% instead.



■ 35.1310, 37.5548,  
78.7960

■ 35.1310, 37.5548,  
78.7960

316.6441,  
335.7063, 510.4653

■ 23.9308, 25.6373,  
58.2078

■ 67.0213, 71.4252,  
133.4677

■ 15.4067, 16.5525,  
41.5599

■ 88.4422, 94.1470,  
168.3882

■ 9.1935, 9.9160,  
28.4338

■ 114.0006,  
121.2390, 208.9233

■ 4.9257, 5.3433,  
18.4111

144.0620,  
153.0857, 255.4914

■ 2.2381, 2.4501,  
11.0730

178.9917,  
190.0713, 308.5111

■ 0.7627, 0.8515,  
6.0012

219.1550,

■ 0.0000, 0.0000,

232.5804, 368.4010

2.7770

264.9174,  
280.9972, 435.5795

■ 0.0000, 0.0000,  
0.9819

■ 0.0000, 0.0000,  
0.0000

■ 35.1310, 37.5548,  
78.7960

■ 35.1310, 37.5548,  
78.7960

■ 30.4296, 32.0186,  
77.9759

■ 40.7722, 43.8710,  
79.7185

■ 26.6030, 27.2190,  
77.2512

■ 47.4045, 50.9991,  
80.7448

■ 23.5829, 23.1136,  
76.6179

■ 55.0799, 58.9736,  
81.8795

■ 21.2879, 19.6518,  
76.0707

■ 63.8453, 67.8259,  
83.1262

■ 19.5799, 16.7538,  
75.6013

■ 73.7448, 77.5851,  
84.4882

■ 19.5796, 16.7532,  
75.6013

■ 84.8198, 88.2793,  
85.9686

■ 89.9298, 96.2337,  
87.2347

■ 91.0037, 98.3815,  
87.5926

# Harmonies

## Analogous

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



30.2703, 37.5548, 71.5534



35.1310, 37.5548, 78.7960



40.6514, 37.5548, 73.9362

# Triad

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



35.1310, 37.5548, 78.7960



45.8841, 37.5548, 28.7547



27.6127, 37.5548, 26.5886

# Complementary

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



35.1310, 37.5548, 78.7960



49.9770, 47.5977, 22.4744

# 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.



31.1583, 37.5548, 19.5342



35.1310, 37.5548, 78.7960



41.7313, 37.5548, 20.5429

# Square

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



35.1310, 37.5548, 78.7960



47.2199, 37.5548, 42.5354



36.2644, 37.5548, 17.6402



26.2163, 37.5548, 39.2892



# Rectangle

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



35.1310, 37.5548, 78.7960



43.9100, 37.5548, 65.0274



36.2644, 37.5548, 17.6402



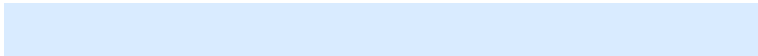
28.5738, 37.5548, 23.6156

# Sweetspot

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



35.1323, 37.5562, 78.7969



76.3577, 81.4668, 106.3079



42.2172, 62.0785, 49.2433



15.8384, 16.9253, 22.6821



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

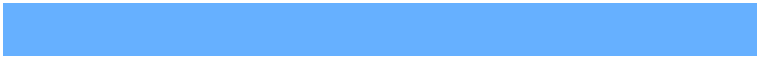


# Same Dimension

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



35.1323, 37.5562, 78.7969



39.0186, 41.0230, 100.4695



27.2115, 21.3438, 76.0851



14.1538, 15.0289, 18.2992



11.4234, 9.9088, 43.6937



0.9368, 0.9175, 3.2597



# Inverse Universe

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



45.1748, 31.3946, 41.2162



53.8096, 33.8900, 44.6838



62.1770, 72.8875, 26.7128



14.6652, 14.4833, 16.4374



20.1595, 10.1980, 9.7348



1.5365, 0.7723, 0.9656



# Previews

## White Background



This preview shows how the XYZ color 35.1310, 37.5548, 78.7960 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

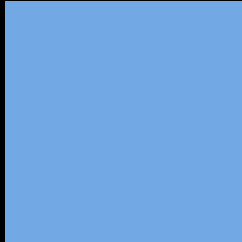
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.1310, 37.5548, 78.7960 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

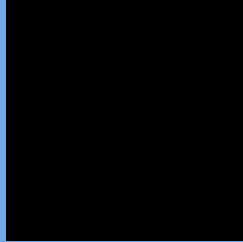
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

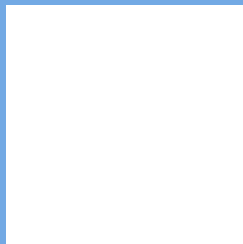
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 35.1310, 37.5548, 78.7960**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.1310, 37.5548, 78.7960.



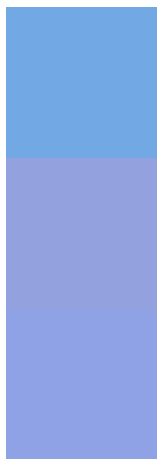
This preview shows how white text looks on a background with the XYZ color 35.1310, 37.5548,



# 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

35.1310, 37.5548, 78.7960

### Protanopia

38.2722, 37.3714, 75.0083

### Deuteranopia

38.2185, 37.2486, 79.3041



## **Tritanopia**

30.2991, 37.5932, 54.3745

# Trichromacy



## Original Color

35.1310, 37.5548, 78.7960

## Protanomaly

37.0374, 37.4974, 76.5198

## Deuteranomaly

37.1137, 37.4729, 79.4056

## Tritanomaly

31.7865, 37.3109, 62.6531

# Monochromacy



## Original Color

35.1310, 37.5548, 78.7960

## Achromatopsia

32.9542, 34.6704, 37.7561

## Achromatomaly

33.0766, 35.4947, 50.4552

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.1310, 37.5548, 78.7960 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(114, 169, 228)` looks like.

```
.text, #text, p{  
    color:rgb(114, 169, 228)  
}
```

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(114, 169, 228) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 169, 228) }
```

## Border

The CSS property to change the border of an element to XYZ 35.1310, 37.5548, 78.7960 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(114, 169, 228) }
```



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

```
.border{ border-color:rgb(114, 169, 228) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 169, 228)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 169, 228); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 169, 228);  
box-shadow:4px 4px 4px 4px rgb(114, 169,  
228) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.1310, 37.5548, 78.7960 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 169, 228) }
```

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

```
.background{ background-color: rgb(114,  
169, 228) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor