

# Converting Colors

XYZ(33.6247, 37.8722, 77.6382)

Have a look what the booklet for  
XYZ(33.6247, 37.8722, 77.6382)  
contains.

<b>XYZ(33.6008, 37.9195, 77.4998)</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(33.6008, 37.9195,  
77.4998)**

# Conversions

## Conversions Part 1

Format	Color
Hex	61ADE2
RGB	97, 173, 226
RGB Percent	38%, 68%, 89%
CMY	0.6196, 0.3216, 0.1137
CMYK	0.57, 0.23, 0.00, 0.11
HSL	205°, 69%, 63%
HSV	205°, 57%, 89%
XYZ	33.6008, 37.9195, 77.4998
YIQ	156.3180, -62.3090, 0.3710

# Conversions

## Conversions Part 2

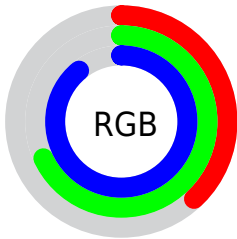
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	97, 145, 226
Decimal	6401506
CIE <sub>Lab</sub>	67.96, -8.36, -33.81
CIE <sub>LCh</sub>	68, 34.828, 256.111
Yxy	37.9195, 0.2255, 0.2545
Android (android.graphics.Color)	4284591586 (0xFF61ADE2)
YUV	156.3180, 34.3532, -52.0219
Hunter-Lab	61.5788, -10.3635, -31.5141

# Details

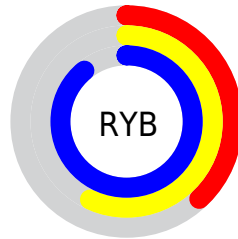
The XYZ color **33.6008, 37.9195, 77.4998** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **44.4295, 38.8464, 16.4672**, and the grayscale version is **31.6145, 33.2609, 36.2211**.

A 20% lighter version of the original color is **59.5037, 69.7747, 104.9394**, and **14.5191, 16.7966, 40.5070** is the 20% darker color. If you saturate the color by 10%, you get **29.8079, 33.4128, 76.8306**, and if you desaturate by 10%, it is **38.2059, 43.0300, 78.2442**.

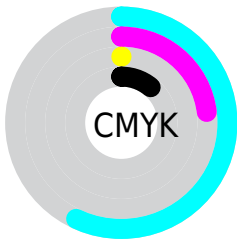
# Distribution



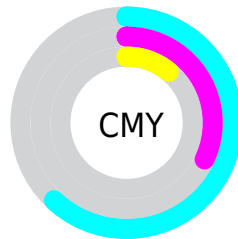
- Red (38%)
- Green (68%)
- Blue (89%)



- Red (38%)
- Yellow (57%)
- Blue (89%)



- Cyan (57%)
- Magenta (23%)
- Yellow (0%)
- Black (11%)



- Cyan (62%)
- Magenta (32%)
- Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.6008, 37.9195, 77.4998 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 33.6008, 37.9195, 77.4998 by changing the saturation by 10% instead.



■ 33.6008, 37.9195,  
77.4998

■ 33.6008, 37.9195,  
77.4998

309.9657,  
337.2745, 505.9493

■ 22.7485, 25.9202,  
57.1492

■ 64.6608, 71.9847,  
131.6242

■ 14.5276, 16.7640,  
40.7149

■ 85.5993, 94.8195,  
166.2351

■ 8.5727, 10.0663,  
27.7783

■ 110.6305,  
122.0348, 206.4364

■ 4.5184, 5.4430,  
17.9210

■ 140.1199,  
154.0152, 252.6468

■ 1.9994, 2.5094,  
10.7245

174.4327,  
191.1449, 305.2847

■ 0.6336, 0.8814,  
5.7700

213.9344,

■ 0.0000, 0.0000,

233.8085, 364.7687

2.6392

258.9903,  
282.3902, 431.5174

■ 0.0000, 0.0000,  
0.9126

■ 0.0000, 0.0000,  
0.0000

■ 33.6008, 37.9195,  
77.4998

■ 33.6008, 37.9195,  
77.4998

■ 29.8079, 33.4128,  
76.8306

■ 38.2059, 43.0300,  
78.2442

■ 26.7608, 29.4699,  
76.2301

■ 43.6745, 48.7723,  
79.0644

■ 24.3879, 26.0507,  
75.6952

■ 50.0582, 55.1772,  
79.9642

■ 22.5948, 23.1028,  
75.2207

■ 57.4030, 62.2717,  
80.9465

■ 22.1352, 22.3062,  
75.0912

■ 65.7517, 70.0813,  
82.0138

■ 75.1443, 78.6298,  
83.1688

■ 85.5423, 87.9005,  
84.4102

■ 88.3159, 93.4477,  
85.3347

■ 90.7276, 98.2710,  
86.1386

# Harmonies

## Analogous

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



29.2981, 37.9195, 66.7037



33.6008, 37.9195, 77.4998



39.0066, 37.9195, 77.0457

# Triad

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



33.6008, 37.9195, 77.4998



46.9910, 37.9195, 33.5582



29.0504, 37.9195, 23.8825

# Complementary

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



33.6008, 37.9195, 77.4998



44.4295, 38.8464, 16.4672

# 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.



33.2303, 37.9195, 18.7655



33.6008, 37.9195, 77.4998



43.7471, 37.9195, 23.3198

# Square

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



33.6008, 37.9195, 77.4998



47.1157, 37.9195, 48.8625



38.5973, 37.9195, 18.5893



26.8544, 37.9195, 34.5395



# Rectangle

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



33.6008, 37.9195, 77.4998



42.5282, 37.9195, 70.3459



38.5973, 37.9195, 18.5893



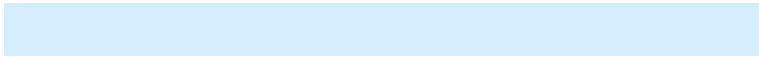
30.2501, 37.9195, 21.5889

# Sweetspot

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



33.6021, 37.9209, 77.5007



75.4396, 81.8431, 106.4290



37.5204, 59.0923, 37.6968



15.7069, 17.0981, 22.7224



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.



33.6021, 37.9209, 77.5007



38.5851, 43.1761, 100.9079



24.2238, 19.1643, 74.3746



13.6198, 14.5787, 17.4838



12.7476, 12.9648, 42.8789



0.9711, 1.0737, 3.0013



# Inverse Universe

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



43.1827, 27.7367, 42.6142



52.8535, 30.6849, 48.3511



57.3422, 64.6718, 20.7715



14.0443, 13.8354, 16.0035



20.3746, 10.2168, 13.9044



1.4564, 0.7258, 1.1964



# Previews

## White Background



This preview shows how the XYZ color 33.6008, 37.9195, 77.4998 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

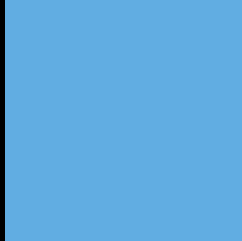
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.6008, 37.9195, 77.4998 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

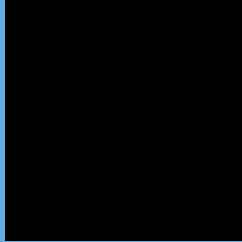
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 33.6008, 37.9195, 77.4998**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.6008, 37.9195, 77.4998.



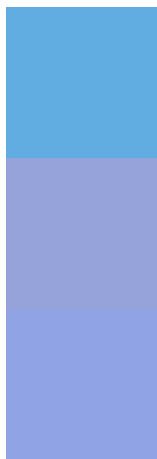
This preview shows how white text looks on a background with the XYZ color 33.6008, 37.9195,



# 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

33.6008, 37.9195, 77.4998

### Protanopia

38.1465, 37.6459, 71.5855

### Deuteranopia

38.6024, 37.7251, 78.6459



## Tritanopia

29.4019, 37.9753, 56.2324

# Trichromacy



## Original Color

33.6008, 37.9195, 77.4998

## Protanomaly

36.0758, 37.6037, 73.7635

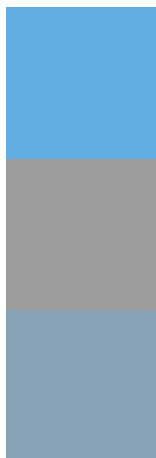
## Deuteranomaly

36.4362, 37.6955, 78.0286

## Tritanomaly

30.8614, 37.9759, 63.4611

# Monochromacy



## Original Color

33.6008, 37.9195, 77.4998

## Achromatopsia

31.5995, 33.2452, 36.2040

## Achromatomaly

31.2525, 34.3278, 48.6948

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.6008, 37.9195, 77.4998 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(97, 173, 226)` looks like.

```
.text, #text, p{  
    color:rgb(97, 173, 226)  
}
```

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(97, 173, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 173, 226) }
```

## Border

The CSS property to change the border of an element to XYZ 33.6008, 37.9195, 77.4998 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(97, 173, 226) }
```



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

```
.border{ border-color:rgb(97, 173, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(97, 173, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 173, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 173, 226);  
box-shadow:4px 4px 4px 4px rgb(97, 173,  
226) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.6008, 37.9195, 77.4998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 173, 226) }
```

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

```
.background{ background-color: rgb(97, 173,  
226) }
```

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