

# Converting Colors

XYZ(37.8866, 40.3708,  
100.4033)

Have a look what the booklet for  
XYZ(37.8866, 40.3708, 100.4033)  
contains.

<b>XYZ(37.9890, 40.5460, 100.4317)</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(37.9890, 40.5460,  
100.4317)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5CB0FF
RGB	92, 176, 255
RGB Percent	36%, 69%, 100%
CMY	0.6392, 0.3098, 0.0000
CMYK	0.64, 0.31, 0.00, 0.00
HSL	209°, 100%, 68%
HSV	209°, 64%, 100%
XYZ	37.9890, 40.5460, 100.4317
YIQ	159.8900, -75.4230, 6.7610

# Conversions

## Conversions Part 2

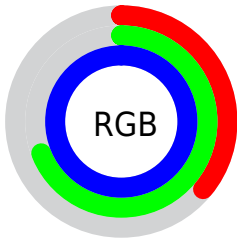
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	92, 147, 255
Decimal	6074623
CIE Lab	69.86, -1.76, -46.66
CIE LCh	70, 46.690, 267.834
Yxy	40.5460, 0.2123, 0.2266
Android (android.graphics.Color)	4284264703 (0xFF5CB0FF)
YUV	159.8900, 46.8892, -59.5395
Hunter-Lab	63.6757, -4.9393, -48.9413

# Details

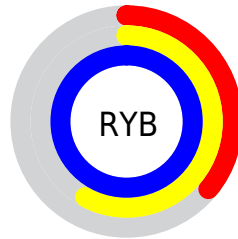
The XYZ color **37.9890, 40.5460, 100.4317** is a light color, and the websafe version is hex **3399FF**. The color can be described as light muted azure. A complement of this color would be **57.7365, 51.1614, 16.9595**, and the grayscale version is **33.1805, 34.9085, 38.0154**.

A 20% lighter version of the original color is **60.1435, 71.3404, 105.2079**, and **17.4007, 18.4925, 56.0784** is the 20% darker color. If you saturate the color by 10%, you get **33.5429, 34.8193, 99.5606**, and if you desaturate by 10%, it is **43.5153, 47.1584, 101.4167**.

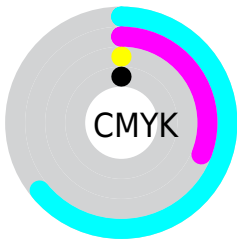
# Distribution



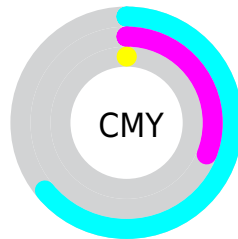
- Red (36%)
- Green (69%)
- Blue (100%)



- Red (36%)
- Yellow (58%)
- Blue (100%)



- Cyan (64%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)



- Cyan (64%)
- Magenta (31%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.9890, 40.5460, 100.4317 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 37.9890, 40.5460, 100.4317 by changing the saturation by 10% instead.



■ 37.9890, 40.5460,  
100.4317

■ 37.9890, 40.5460,  
100.4317

328.8545,  
348.4195, 582.8344

■ 26.1513, 27.9645,  
76.0422

■ 71.3953, 75.9942,  
163.8074

■ 17.0702, 18.2989,  
55.9603

■ 93.6946, 99.6298,  
203.6306

■ 10.3801, 11.1648,  
39.7673

■ 120.2119,  
127.7187, 249.4356

■ 5.7159, 6.1778,  
27.0447

■ 151.3124,  
160.6456, 301.6407

■ 2.7121, 2.9535,  
17.3741

187.3616,  
198.7947, 360.6646

■ 1.0034, 1.1075,  
10.3368

228.7247,

■ 0.0000, 0.0000,

242.5505, 426.9259

5.5143

275.7672,  
292.2973, 500.8429

■ 0.0000, 0.0000,  
2.4881

■ 0.0000, 0.0000,  
0.8338

■ 37.9890, 40.5460,  
100.4317

■ 37.9890, 40.5460,  
100.4317

■ 33.5429, 34.8193,  
99.5606

■ 43.5153, 47.1584,  
101.4167

■ 30.0771, 29.9162,  
98.7969

■ 50.2009, 54.7037,  
102.5207

■ 27.4771, 25.7692,  
98.1335

■ 58.1215, 63.2296,  
103.7489

■ 26.2211, 23.5622,  
97.7737

■ 67.3447, 72.7788,  
105.1060

■ 77.9328, 83.3910,  
106.5963

■ 89.9441, 95.1035,  
108.2240

95.0500, 100.0000,  
108.9000

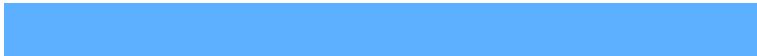
# Harmonies

## Analogous

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



31.2822, 40.5460, 89.7918



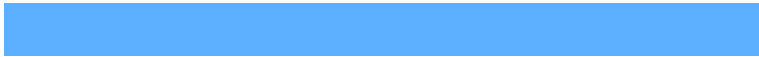
37.9890, 40.5460, 100.4317



45.7573, 40.5460, 92.3506

# Triad

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



37.9890, 40.5460, 100.4317



52.9292, 40.5460, 27.3745



27.4621, 40.5460, 25.4334

# Complementary

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



37.9890, 40.5460, 100.4317



57.7365, 51.1614, 16.9595

# 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.



32.1206, 40.5460, 16.5522



37.9890, 40.5460, 100.4317



46.8365, 40.5460, 17.3869

# Square

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



37.9890, 40.5460, 100.4317



55.0286, 40.5460, 45.7457



39.0918, 40.5460, 14.1783



25.7223, 40.5460, 42.5873



# Rectangle

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



37.9890, 40.5460, 100.4317



50.3917, 40.5460, 78.5467



39.0918, 40.5460, 14.1783



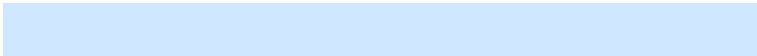
28.7059, 40.5460, 21.6237

# Sweetspot

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



37.9903, 40.5473, 100.4319



72.3775, 77.8626, 105.8220



47.5051, 76.7280, 50.7285



14.8565, 16.0262, 22.5603



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.



37.9903, 40.5473, 100.4319



32.3749, 33.2231, 99.3141



26.5321, 17.6309, 96.6125



17.7772, 18.9260, 22.9661



13.8514, 12.6123, 51.1390



1.4581, 1.4468, 5.0157



# Inverse Universe

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



52.9047, 32.0506, 44.4734



49.1166, 26.8843, 35.7819



78.0717, 91.8319, 23.7379



18.4002, 18.1434, 20.7246



23.7797, 12.0012, 12.7564



2.3706, 1.1906, 1.5329



# Previews

## White Background



This preview shows how the XYZ color 37.9890, 40.5460, 100.4317 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

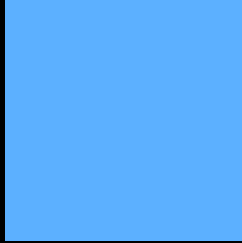
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.9890, 40.5460, 100.4317 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

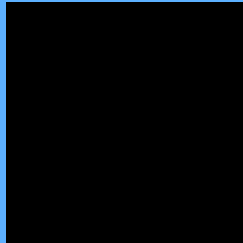
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

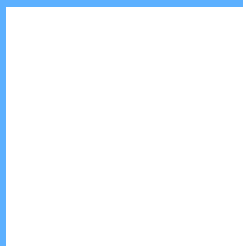
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.9890, 40.5460, 100.4317**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.9890, 40.5460, 100.4317.



This preview shows how white text looks on a background with the XYZ color 37.9890, 40.5460,



# 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

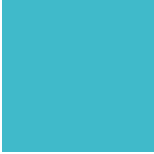
37.9890, 40.5460, 100.4317

### Protanopia

41.9349, 40.1925, 93.5434

### Deuteranopia

41.4439, 40.3418, 100.2102



## **Tritanopia**

30.3339, 40.4721, 62.0902

# Trichromacy



## Original Color

37.9890, 40.5460, 100.4317

## Protanomaly

39.9422, 39.9367, 96.0458

## Deuteranomaly

40.0050, 40.4381, 100.3046

## Tritanomaly

32.6031, 40.1322, 74.4345

# Monochromacy



## Original Color

37.9890, 40.5460, 100.4317

## Achromatopsia

33.4132, 35.1533, 38.2819

## Achromatomaly

33.4782, 36.3635, 56.8841

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.9890, 40.5460, 100.4317 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(92, 176, 255)` looks like.

```
.text, #text, p{  
    color:rgb(92, 176, 255)  
}
```

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(92, 176, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(92, 176, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 37.9890, 40.5460, 100.4317 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(92, 176, 255) }
```



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

```
.border{ border-color:rgb(92, 176, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(92, 176, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(92, 176, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(92, 176, 255);  
box-shadow:4px 4px 4px 4px rgb(92, 176,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.9890, 40.5460, 100.4317 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(92, 176, 255) }
```

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

```
.background{ background-color: rgb(92, 176,  
255) }
```

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