

# Converting Colors

XYZ(37.2208, 40.3166, 72.2412)

Have a look what the booklet for  
XYZ(37.2208, 40.3166, 72.2412)  
contains.

<b>XYZ(37.1510, 40.1594, 72.1231)</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(37.1510, 40.1594,  
72.1231)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83AEDA
RGB	131, 174, 218
RGB Percent	51%, 68%, 85%
CMY	0.4863, 0.3176, 0.1451
CMYK	0.40, 0.20, 0.00, 0.15
HSL	210°, 54%, 68%
HSV	210°, 40%, 85%
XYZ	37.1510, 40.1594, 72.1231
YIQ	166.1590, -39.7520, 4.5680

# Conversions

## Conversions Part 2

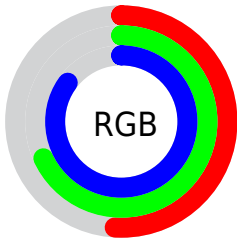
Format	Color
R <sub>YB</sub>	131, 160, 218
Decimal	8629978
CIE Lab	69.58, -3.31, -26.79
CIE LCh	70, 26.989, 262.948
Yxy	40.1594, 0.2486, 0.2687
Android (android.graphics.Color)	4286820058 (0xFF83AEDA)
YUV	166.1590, 25.5576, -30.8344
Hunter-Lab	63.3714, -6.2558, -23.1180

# Details

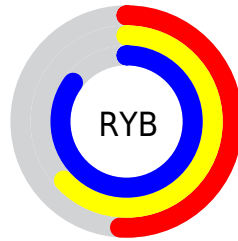
The XYZ color **37.1510, 40.1594, 72.1231** is a light color, and the websafe version is hex **6699CC**. A complement of this color would be **48.3409, 47.2048, 28.0376**, and the grayscale version is **36.2175, 38.1037, 41.4949**.

A 20% lighter version of the original color is **66.5628, 73.8234, 105.3489**, and **16.6310, 18.1412, 37.2754** is the 20% darker color. If you saturate the color by 10%, you get **32.0801, 34.5128, 71.3012**, and if you desaturate by 10%, it is **43.1097, 46.5250, 73.0384**.

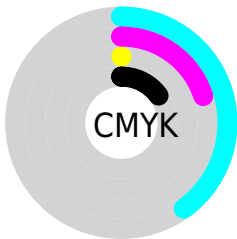
# Distribution



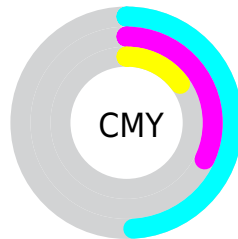
- Red (51%)
- Green (68%)
- Blue (85%)



- Red (51%)
- Yellow (63%)
- Blue (85%)



- Cyan (40%)
- Magenta (20%)
- Yellow (0%)
- Black (15%)



- Cyan (49%)
- Magenta (32%)
- Yellow (15%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.1510, 40.1594, 72.1231 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 37.1510, 40.1594, 72.1231 by changing the saturation by 10% instead.



■ 37.1510, 40.1594,  
72.1231

■ 37.1510, 40.1594,  
72.1231

325.3080,  
346.7950, 486.9590

■ 25.4986, 27.6628,  
52.7718

■ 70.1173, 75.4062,  
123.9409

■ 16.5797, 18.0717,  
37.2341

■ 92.1619, 98.9252,  
157.2444

■ 10.0287, 11.0014,  
25.0916

■ 118.4014,  
126.8872, 196.0358

■ 5.4804, 6.0678,  
15.9257

149.2009,  
159.6765, 240.7335

■ 2.5694, 2.8864,  
9.3178

184.9261,  
197.6775, 291.7562

■ 0.9304, 1.0727,  
4.8494

225.9420,

■ 0.0000, 0.0000,

241.2747, 349.5223

2.1020

272.6142,  
290.8524, 414.4504

■ 0.0000, 0.0000,  
0.6170

■ 0.0000, 0.0000,  
0.0000

■ 37.1510, 40.1594,  
72.1231

■ 37.1510, 40.1594,  
72.1231

■ 32.0801, 34.5128,  
71.3012

■ 43.1097, 46.5250,  
73.0384

■ 27.8439, 29.5489,  
70.5663

■ 49.9974, 53.6341,  
74.0476

■ 24.3894, 25.2350,  
69.9157

■ 57.8570, 61.5157,  
75.1547

■ 21.6550, 21.5325,  
69.3452

■ 66.7278, 70.1955,  
76.3625

■ 19.5682, 18.3972,  
68.8500

■ 76.6465, 79.6979,  
77.6739

■ 18.0046, 15.7574,  
68.4229

■ 85.1004, 88.7328,  
78.9722

■ 17.9912, 15.7345,  
68.4192

■ 88.4481, 95.4282,  
80.0881

■ 89.6550, 97.8420,  
80.4904

# Harmonies

## Analogous

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



33.3416, 40.1594, 65.8074



37.1510, 40.1594, 72.1231



41.5309, 40.1594, 69.7520

# Triad

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



37.1510, 40.1594, 72.1231



46.4166, 40.1594, 35.0229



31.8668, 40.1594, 30.8044

# Complementary

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



37.1510, 40.1594, 72.1231



48.3409, 47.2048, 28.0376

# 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.



34.9960, 40.1594, 25.1444



37.1510, 40.1594, 72.1231



43.4441, 40.1594, 27.2368

# Square

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



37.1510, 40.1594, 72.1231



47.1032, 40.1594, 46.7390



39.2081, 40.1594, 23.9754



30.4448, 40.1594, 40.8468



# Rectangle

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



37.1510, 40.1594, 72.1231



44.1678, 40.1594, 63.7457



39.2081, 40.1594, 23.9754



32.7419, 40.1594, 28.4105

# Sweetspot

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



37.1523, 40.1609, 72.1240



79.9349, 85.1718, 106.8345



42.1213, 58.0445, 49.2853



16.7846, 17.9064, 22.8216



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

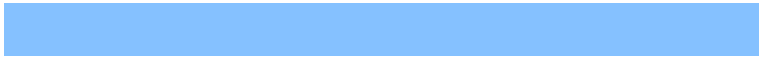


# Same Dimension

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



37.1523, 40.1609, 72.1240



46.7514, 50.3573, 101.8636



30.1324, 26.1211, 69.7841



12.8675, 13.6748, 16.6134



10.8859, 9.6413, 41.0256



0.7914, 0.7969, 2.6865



# Inverse Universe

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



44.6708, 34.1953, 44.2920



59.2094, 41.7804, 55.4531



58.0824, 66.6877, 31.2847



13.3230, 13.1583, 14.9622



18.9900, 9.5971, 9.5935

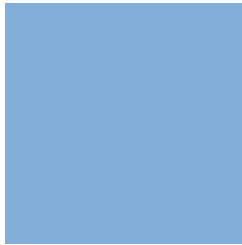


1.2737, 0.6391, 0.8505



# Previews

## White Background



This preview shows how the XYZ color 37.1510, 40.1594, 72.1231 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 37.1510, 40.1594, 72.1231 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

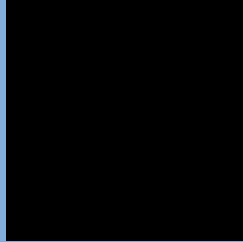
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 37.1510, 40.1594, 72.1231

## Background



This preview shows how black text looks on a background with the XYZ color 37.1510, 40.1594, 72.1231.



This preview shows how white text looks on a background with the XYZ color 37.1510, 40.1594,



# 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

37.1510, 40.1594, 72.1231

### Protanopia

40.1134, 40.0785, 68.5725

### Deuteranopia

41.0351, 40.1757, 73.3020



## Tritanopia

33.8582, 39.9761, 56.3837

# Trichromacy



## Original Color

37.1510, 40.1594, 72.1231

## Protanomaly

38.8532, 39.9516, 69.9536

## Deuteranomaly

39.5553, 40.2535, 72.7027

## Tritanomaly

35.1352, 40.2206, 61.7886

# Monochromacy



## Original Color

37.1510, 40.1594, 72.1231

## Achromatopsia

36.2450, 38.1326, 41.5264

## Achromatomaly

36.0818, 38.6510, 51.4576

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.1510, 40.1594, 72.1231 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(131, 174, 218)` looks like.

```
.text, #text, p{  
    color:rgb(131, 174, 218)  
}
```

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(131, 174, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 174, 218) }
```

## Border

The CSS property to change the border of an element to XYZ 37.1510, 40.1594, 72.1231 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(131, 174, 218) }
```



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

```
.border{ border-color:rgb(131, 174, 218) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 174, 218)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 174, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 174, 218);  
box-shadow:4px 4px 4px 4px rgb(131, 174,  
218) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.1510, 40.1594, 72.1231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 174, 218) }
```

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

```
.background{ background-color: rgb(131,  
174, 218) }
```

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