

# Converting Colors

XYZ(49.4411, 58.2965, 91.4499)

Have a look what the booklet for  
XYZ(49.4411, 58.2965, 91.4499)  
contains.

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# **Color**

**XYZ(49.3390, 58.1982,  
91.0710)**

# Conversions

## Conversions Part 1

Format	Color
Hex	89D3F0
RGB	137, 211, 240
RGB Percent	54%, 83%, 94%
CMY	0.4627, 0.1725, 0.0588
CMYK	0.43, 0.12, 0.00, 0.06
HSL	197°, 77%, 74%
HSV	197°, 43%, 94%
XYZ	49.3390, 58.1982, 91.0710
YIQ	192.1800, -53.4130, -6.6690

# Conversions

## Conversions Part 2

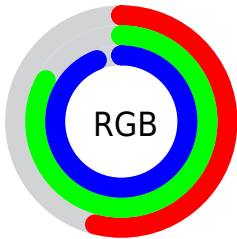
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	137, 180, 240
Decimal	9032688
CIE <sub>Lab</sub>	80.85, -15.61, -21.46
CIE <sub>LCh</sub>	81, 26.536, 233.963
Yxy	58.1982, 0.2484, 0.2930
Android (android.graphics.Color)	4287222768 (0xFF89D3F0)
YUV	192.1800, 23.5753, -48.3929
Hunter-Lab	76.2877, -18.0589, -17.3780

# Details

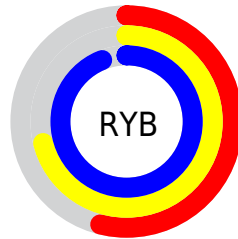
The XYZ color **49.3390, 58.1982, 91.0710** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **54.0880, 47.6051, 30.0066**, and the grayscale version is **50.0986, 52.7076, 57.3986**.

A 20% lighter version of the original color is **76.0581, 90.2093, 108.0112**, and **23.8485, 28.9431, 49.6770** is the 20% darker color. If you saturate the color by 10%, you get **44.1905, 53.1054, 90.3604**, and if you desaturate by 10%, it is **55.4367, 63.8877, 91.8488**.

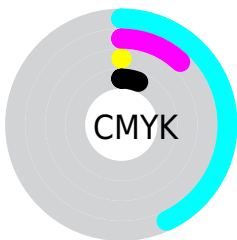
# Distribution



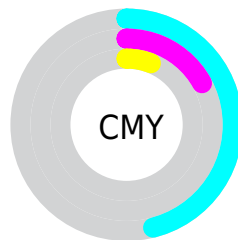
- Red (54%)
- Green (83%)
- Blue (94%)



- Red (54%)
- Yellow (71%)
- Blue (94%)



- Cyan (43%)
- Magenta (12%)
- Yellow (0%)
- Black (6%)



- Cyan (46%)
- Magenta (17%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.3390, 58.1982, 91.0710 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 49.3390, 58.1982, 91.0710 by changing the saturation by 10% instead.



■ 49.3390, 58.1982,  
91.0710

■ 49.3390, 58.1982,  
91.0710

374.5702,  
417.9241, 552.1684

■ 35.1041, 41.9680,  
68.2906

■ 88.3924, 102.2114,  
150.7737

■ 23.9100, 29.0762,  
49.6660

■ 113.9417,  
130.7633, 188.5330

■ 15.3912, 19.1385,  
34.7788

■ 143.9931,  
164.1911, 232.1223

■ 9.1825, 11.7704,  
23.2103

178.9121,  
202.8793, 281.9602

■ 4.9185, 6.5875,  
14.5421

219.0639,  
247.2123, 338.4652

■ 2.2338, 3.2055,  
8.3556

264.8140,

■ 0.7605, 1.2399,

297.5745, 402.0559

4.2323

316.5276,  
354.3503, 473.1508

■ 0.0000, 0.0940,  
1.7536

■ 0.0000, 0.0000,  
0.3971

■ 49.3390, 58.1982,  
91.0710

■ 49.3390, 58.1982,  
91.0710

■ 44.1905, 53.1054,  
90.3604

■ 55.4367, 63.8877,  
91.8488

■ 39.9262, 48.5706,  
89.7098

■ 62.5321, 70.1962,  
92.6925

■ 36.4812, 44.5604,  
89.1174

■ 70.6771, 77.1531,  
93.6061

■ 33.7784, 41.0337,  
88.5791

■ 79.9181, 84.7834,  
94.5918

■ 31.7250, 37.9413,  
88.0904

■ 89.5569, 92.7283,  
95.6173

■ 30.5631, 35.9608,  
87.7694

■ 91.6363, 96.8871,  
96.3104

■ 92.7284, 99.0713,  
96.6745

# Harmonies

## Analogous

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



46.2253, 58.1982, 76.4468



49.3390, 58.1982, 91.0710



54.2136, 58.1982, 98.4088

# Triad

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



49.3390, 58.1982, 91.0710



66.4828, 58.1982, 66.5986



51.1410, 58.1982, 39.5763

# Complementary

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



49.3390, 58.1982, 91.0710



54.0880, 47.6051, 30.0066

# 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.



56.4325, 58.1982, 37.8227



49.3390, 58.1982, 91.0710



65.5258, 58.1982, 51.8730

# Square

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



49.3390, 58.1982, 91.0710



64.2916, 58.1982, 82.8544



61.7564, 58.1982, 41.9435



47.2166, 58.1982, 47.2048



# Rectangle

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



49.3390, 58.1982, 91.0710



57.9002, 58.1982, 97.4395



61.7564, 58.1982, 41.9435



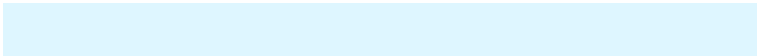
52.8091, 58.1982, 38.3391

# Sweetspot

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



49.3408, 58.2004, 91.0724



80.9828, 88.4350, 107.4092



48.2212, 70.3371, 46.3800



16.8686, 18.5367, 22.9388



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

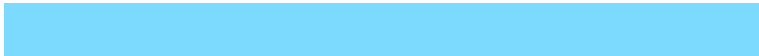


# Same Dimension

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



49.3408, 58.2004, 91.0724



51.6717, 61.9193, 103.8360



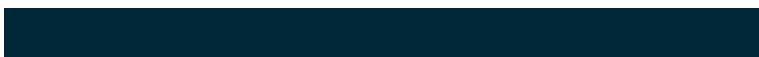
38.7970, 37.1129, 87.5578



15.8494, 17.1329, 20.1932



16.8488, 19.9218, 48.0851



1.4854, 1.8248, 4.0281



# Inverse Universe

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



56.6403, 41.1215, 66.5824



61.2727, 40.9967, 71.2783



64.9992, 69.4275, 33.6437



16.2534, 15.9511, 18.8907



23.8301, 11.8045, 22.8197

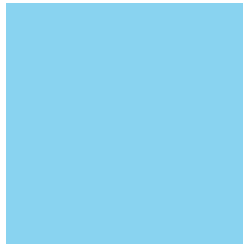


2.0247, 0.9989, 2.1209



# Previews

## White Background



This preview shows how the XYZ color 49.3390, 58.1982, 91.0710 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

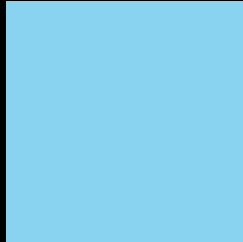
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.3390, 58.1982, 91.0710 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

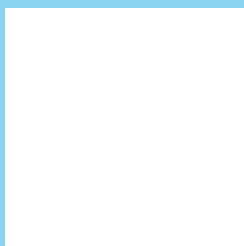
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 49.3390, 58.1982, 91.0710**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.3390, 58.1982, 91.0710.



This preview shows how white text looks on a background with the XYZ color 49.3390, 58.1982,



# 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

49.3390, 58.1982, 91.0710

### Protanopia

56.8660, 57.6270, 83.7273

### Deuteranopia

58.9435, 57.8212, 92.8480



## Tritanopia

47.9087, 58.3700, 83.6044

# Trichromacy



**Original Color**

49.3390, 58.1982, 91.0710

**Protanomaly**

53.4408, 57.5366, 86.1309

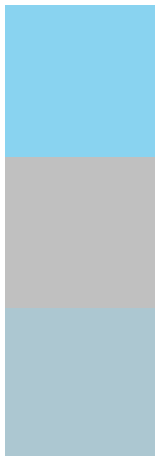
**Deuteranomaly**

54.5929, 57.2981, 92.1867

**Tritanomaly**

48.3864, 58.1784, 86.5212

# Monochromacy



**Original Color**

49.3390, 58.1982, 91.0710

**Achromatopsia**

50.1023, 52.7115, 57.4028

**Achromatomaly**

48.9453, 54.2210, 68.2076

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.3390, 58.1982, 91.0710 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(137, 211, 240)` looks like.

```
.text, #text, p{  
    color:rgb(137, 211, 240)  
}
```

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(137, 211, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 211, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 49.3390, 58.1982, 91.0710 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(137, 211, 240) }
```



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

```
.border{ border-color:rgb(137, 211, 240) }
```

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

Here you see how a box with a 4 pixel `rgb(137, 211, 240)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 211, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 211, 240);  
box-shadow:4px 4px 4px 4px rgb(137, 211,  
240) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.3390, 58.1982, 91.0710 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 211, 240) }
```

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

```
.background{ background-color: rgb(137,  
211, 240) }
```

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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