

# Converting Colors

XYZ(45.9601, 48.8615, 89.9798)

Have a look what the booklet for  
XYZ(45.9601, 48.8615, 89.9798)  
contains.

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# **Color**

**XYZ(46.1074, 48.9491,  
90.2371)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	93BDF1
RGB	147, 189, 241
RGB Percent	58%, 74%, 95%
CMY	0.4235, 0.2588, 0.0549
CMYK	0.39, 0.22, 0.00, 0.05
HSL	213°, 77%, 76%
HSV	213°, 39%, 95%
XYZ	46.1074, 48.9491, 90.2371
YIQ	182.3700, -41.7240, 7.2680

# Conversions

## Conversions Part 2

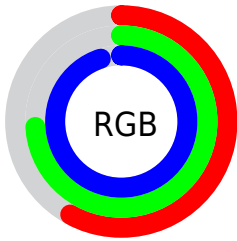
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">147, 176, 241</a>
Decimal	<a href="#">9682417</a>
CIELab	<a href="#">75.42, -1.18, -30.24</a>
CIELCh	<a href="#">75, 30.265, 267.763</a>
Yxy	<a href="#">48.9491, 0.2488, 0.2642</a>
Android (android.graphics.Color)	<a href="#">4287872497 (0xFF93BDF1)</a>
YUV	<a href="#">182.3700, 28.9046, -31.0195</a>
Hunter-Lab	<a href="#">69.9636, -4.8014, -27.4960</a>

# Details

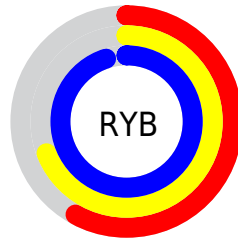
The XYZ color **46.1074, 48.9491, 90.2371** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **61.9667, 61.6555, 36.2402**, and the grayscale version is **44.5300, 46.8490, 51.0186**.

A 20% lighter version of the original color is **75.6042, 85.3622, 107.0995**, and **21.9747, 23.3864, 49.2548** is the 20% darker color. If you saturate the color by 10%, you get **39.4930, 41.4768, 89.1443**, and if you desaturate by 10%, it is **53.8939, 57.4191, 91.4625**.

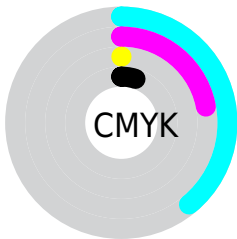
# Distribution



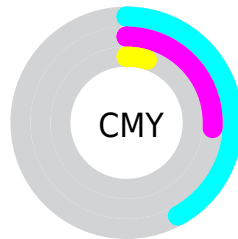
- Red (58%)
- Green (74%)
- Blue (95%)



- Red (58%)
- Yellow (69%)
- Blue (95%)



- Cyan (39%)
- Magenta (22%)
- Yellow (0%)
- Black (5%)



- Cyan (42%)
- Magenta (26%)
- Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.1074, 48.9491, 90.2371 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 46.1074, 48.9491, 90.2371 by changing the saturation by 10% instead.



■ 46.1074, 48.9491,  
90.2371

■ 46.1074, 48.9491,  
90.2371

361.9490,  
382.5419, 549.3918

■ 32.5356, 34.5791,  
67.6025

■ 83.6066, 88.6159,  
149.6061

■ 21.9284, 23.3388,  
49.1097

■ 108.2647,  
114.6814, 187.1775

■ 13.9206, 14.8439,  
34.3403

137.3488,  
145.4142, 230.5650

■ 8.1468, 8.7099,  
22.8757

171.2245,  
181.1988, 280.1871

■ 4.2416, 4.5525,  
14.2973

210.2570,  
222.4194, 336.4623

■ 1.8397, 1.9871,  
8.1866

254.8116,

■ 0.5414, 0.6000,

269.4606, 399.8091

4.1251

305.2539,  
322.7066, 470.6461

■ 0.0000, 0.0000,  
1.6942

■ 0.0000, 0.0000,  
0.3568

■ 46.1074, 48.9491,  
90.2371

■ 46.1074, 48.9491,  
90.2371

■ 39.4930, 41.4768,  
89.1443

■ 53.8939, 57.4191,  
91.4625

■ 33.9818, 34.9530,  
88.1756

■ 62.9065, 66.9216,  
92.8216

■ 29.5046, 29.3322,  
87.3266

■ 73.2015, 77.4963,  
94.3201

■ 25.9813, 24.5616,  
86.5915

■ 84.8299, 89.1790,  
95.9622

■ 23.3182, 20.5809,  
85.9635

■ 92.8774, 99.1309,  
97.4590

■ 21.3774, 17.3063,  
85.4337

■ 21.2065, 17.0092,  
85.3854

# Harmonies

## Analogous

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



41.0374, 48.9491, 83.7113



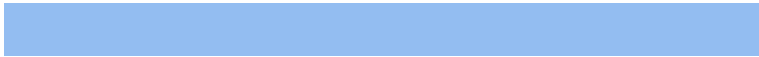
46.1074, 48.9491, 90.2371



51.6988, 48.9491, 85.3413

# Triad

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



46.1074, 48.9491, 90.2371



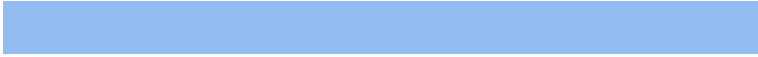
56.6698, 48.9491, 40.2374



38.0336, 48.9491, 38.5406

# Complementary

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



46.1074, 48.9491, 90.2371



61.9667, 61.6555, 36.2402

# 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.



41.7078, 48.9491, 30.4849



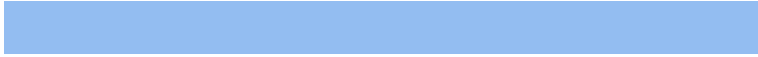
46.1074, 48.9491, 90.2371



52.4804, 48.9491, 31.3182

# Square

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



46.1074, 48.9491, 90.2371



58.0795, 48.9491, 54.5048



46.9444, 48.9491, 28.1292



36.6140, 48.9491, 52.1076



# Rectangle

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



46.1074, 48.9491, 90.2371



54.9211, 48.9491, 76.7128



46.9444, 48.9491, 28.1292



39.0308, 48.9491, 35.2090

# Sweetspot

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



46.1090, 48.9510, 90.2383



79.5102, 84.3226, 106.6930



53.7633, 73.2244, 65.1520



16.6848, 17.7068, 22.7883



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

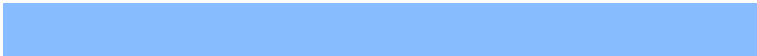


# Same Dimension

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



46.1090, 48.9510, 90.2383



46.1991, 48.6499, 101.5632



39.2053, 33.8665, 87.6905



15.4787, 16.3915, 20.0697



11.6298, 9.4838, 46.3455



1.0653, 0.9846, 3.8881



# Inverse Universe

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



55.8960, 43.2440, 53.5469



59.0778, 42.2910, 53.0231



71.4146, 82.9025, 39.8433



16.0663, 15.8762, 17.9055



21.1958, 10.7507, 8.9476

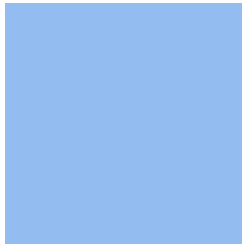


1.8127, 0.9141, 1.0044



# Previews

## White Background



This preview shows how the XYZ color 46.1074, 48.9491, 90.2371 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

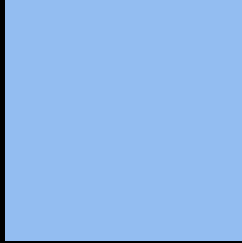
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.1074, 48.9491, 90.2371 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

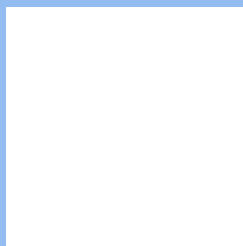
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 46.1074, 48.9491, 90.2371

## Background



This preview shows how black text looks on a background with the XYZ color 46.1074, 48.9491, 90.2371.



This preview shows how white text looks on a background with the XYZ color 46.1074, 48.9491,



# 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

46.1074, 48.9491, 90.2371

### Protanopia

49.2328, 48.7521, 86.9360

### Deuteranopia

49.7682, 48.6374, 90.7693



## Tritanopia

41.7954, 49.1723, 68.2611

# Trichromacy



## Original Color

46.1074, 48.9491, 90.2371

## Protanomaly

47.8858, 48.6575, 87.7569

## Deuteranomaly

48.4802, 48.8953, 90.8869

## Tritanomaly

43.2764, 49.1112, 75.6051

# Monochromacy



## Original Color

46.1074, 48.9491, 90.2371

## Achromatopsia

44.4628, 46.7784, 50.9417

## Achromatomaly

44.4906, 47.4447, 63.3128

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.1074, 48.9491, 90.2371 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(147, 189, 241)` looks like.

```
.text, #text, p{  
    color:rgb(147, 189, 241)  
}
```

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(147, 189, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 189, 241) }
```

## Border

The CSS property to change the border of an element to XYZ 46.1074, 48.9491, 90.2371 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(147, 189, 241) }
```



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

```
.border{ border-color:rgb(147, 189, 241) }
```

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

Here you see how a box with a 4 pixel rgb(147, 189, 241) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 189, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 189, 241);  
box-shadow:4px 4px 4px 4px rgb(147, 189,  
241) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.1074, 48.9491, 90.2371 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 189, 241) }
```

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

```
.background{ background-color: rgb(147,  
189, 241) }
```

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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