

# Converting Colors

XYZ(49.4675, 50.5132,  
103.8465)

Have a look what the booklet for  
XYZ(49.4675, 50.5132, 103.8465)  
contains.

<b>XYZ(49.0101, 50.1945, 101.7131)</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(49.0101, 50.1945,  
101.7131)**

# Conversions

## Conversions Part 1

Format	Color
Hex	97BDFF
RGB	151, 189, 255
RGB Percent	59%, 74%, 100%
CMY	0.4078, 0.2588, 0.0000
CMYK	0.41, 0.26, 0.00, 0.00
HSL	218°, 100%, 80%
HSV	218°, 41%, 100%
XYZ	49.0101, 50.1945, 101.7131
YIQ	185.1620, -43.8340, 12.4700

# Conversions

## Conversions Part 2

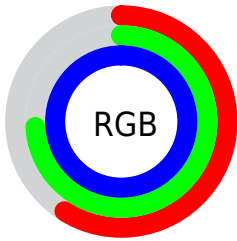
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">151, 179, 255</a>
Decimal	<a href="#">9944575</a>
CIELab	<a href="#">76.19, 3.58, -36.56</a>
CIElCh	<a href="#">76, 36.739, 275.595</a>
Yxy	<a href="#">50.1945, 0.2439, 0.2498</a>
Android (android.graphics.Color)	<a href="#">4288134655 (0xFF97BDFF)</a>
YUV	<a href="#">185.1620, 34.4301, -29.9601</a>
Hunter-Lab	<a href="#">70.8481, -0.5044, -35.5261</a>

# Details

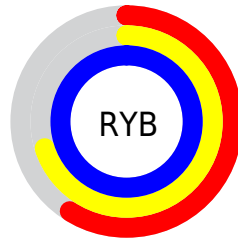
The XYZ color **49.0101, 50.1945, 101.7131** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **71.6395, 73.1210, 39.6181**, and the grayscale version is **46.0375, 48.4350, 52.7458**.

A 20% lighter version of the original color is **76.7148, 85.9347, 107.1515**, and **23.7165, 24.1184, 56.8314** is the 20% darker color. If you saturate the color by 10%, you get **41.4905, 41.4364, 100.4190**, and if you desaturate by 10%, it is **57.9446, 60.2607, 103.1852**.

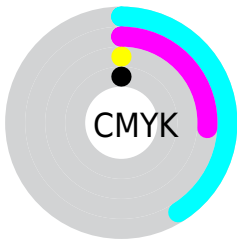
# Distribution



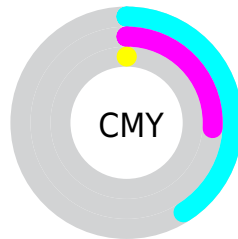
- Red (59%)
- Green (74%)
- Blue (100%)



- Red (59%)
- Yellow (70%)
- Blue (100%)



- Cyan (41%)
- Magenta (26%)
- Yellow (0%)
- Black (0%)



- Cyan (41%)
- Magenta (26%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.0101, 50.1945, 101.7131 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 49.0101, 50.1945, 101.7131 by changing the saturation by 10% instead.



■ 49.0101, 50.1945,  
101.7131

■ 49.0101, 50.1945,  
101.7131

373.2984,  
387.4261, 586.9647

■ 34.8421, 35.5680,  
77.1072

■ 87.9071, 90.4630,  
165.5818

■ 23.7072, 24.1007,  
56.8287

■ 113.3667,  
116.8737, 205.6815

■ 15.2401, 15.4083,  
40.4593

143.3210,  
147.9813, 251.7830

■ 9.0755, 9.1065,  
27.5803

178.1352,  
184.1702, 304.3047

■ 4.8480, 4.8107,  
17.7733

218.1746,  
225.8247, 363.6652

■ 2.1922, 2.1366,  
10.6196

263.8048,

■ 0.7386, 0.6851,

273.3293, 430.2830

5.7007

315.3909,  
327.0682, 504.5767

■ 0.0000, 0.0000,  
2.5981

■ 0.0000, 0.0000,  
0.8915

■ 49.0101, 50.1945,  
101.7131

■ 49.0101, 50.1945,  
101.7131

■ 41.4905, 41.4364,  
100.4190

■ 57.9446, 60.2607,  
103.1852

■ 35.3018, 33.9212,  
99.2946

■ 68.3622, 71.6849,  
104.8412

■ 30.3578, 27.5855,  
98.3322

■ 80.3320, 84.5211,  
106.6880

■ 26.5587, 22.3568,  
97.5232

■ 93.9171, 98.8183,  
108.7316

■ 23.7871, 18.1523,  
96.8578

95.0500, 100.0000,  
108.9000

■ 21.9796, 15.0792,  
96.3599

# Harmonies

## Analogous

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



42.4468, 50.1945, 96.9393



49.0101, 50.1945, 101.7131



55.8325, 50.1945, 91.6257

# Triad

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



49.0101, 50.1945, 101.7131



59.2981, 50.1945, 35.4293



36.6439, 50.1945, 40.4420

# Complementary

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



49.0101, 50.1945, 101.7131



71.6395, 73.1210, 39.6181

# 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.



40.4132, 50.1945, 29.2654



49.0101, 50.1945, 101.7131



53.3877, 50.1945, 26.8961

# Square

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



49.0101, 50.1945, 101.7131



62.1274, 50.1945, 51.0412



46.4299, 50.1945, 24.9469



35.7131, 50.1945, 58.4318



# Rectangle

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



49.0101, 50.1945, 101.7131



59.4804, 50.1945, 78.9861



46.4299, 50.1945, 24.9469



37.6020, 50.1945, 35.9141

# Sweetspot

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



49.0116, 50.1963, 101.7134



78.7895, 82.8811, 106.4527



61.0306, 83.1027, 78.3797



16.5156, 17.3685, 22.7319



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.



49.0116, 50.1963, 101.7134



42.7312, 42.9049, 100.6370



44.6075, 37.3402, 99.4640



17.5464, 18.4644, 22.8891



11.6142, 8.1380, 50.3932



1.2306, 0.9918, 4.9399



# Inverse Universe

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



61.4930, 47.0690, 53.9901



57.0366, 40.3615, 45.7059



77.6677, 92.4789, 43.0368



18.2837, 18.0968, 20.1111



22.6505, 11.5495, 6.8100



2.2557, 1.1447, 0.9282



# Previews

## White Background



This preview shows how the XYZ color 49.0101, 50.1945, 101.7131 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 49.0101, 50.1945, 101.7131 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

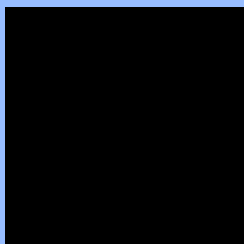
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

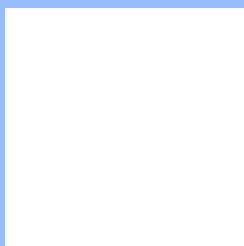
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 49.0101, 50.1945, 101.7131

## Background



This preview shows how black text looks on a background with the XYZ color 49.0101, 50.1945, 101.7131.



This preview shows how white text looks on a background with the XYZ color 49.0101, 50.1945,



# 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

49.0101, 50.1945, 101.7131

### Protanopia

51.0681, 50.0510, 99.0647

### Deuteranopia

51.3353, 50.1334, 101.5788



## **Tritanopia**

42.7917, 50.3120, 70.4066

# Trichromacy



## Original Color

49.0101, 50.1945, 101.7131

## Protanomaly

50.1888, 49.8910, 99.9132

## Deuteranomaly

50.3068, 49.9149, 101.5908

## Tritanomaly

44.7970, 50.1143, 80.7108

# Monochromacy



## Original Color

49.0101, 50.1945, 101.7131

## Achromatopsia

46.1135, 48.5150, 52.8328

## Achromatomaly

46.4253, 48.6552, 67.9173

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.0101, 50.1945, 101.7131 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(151, 189, 255)` looks like.

```
.text, #text, p{  
    color:rgb(151, 189, 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(151, 189, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(151, 189, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 49.0101, 50.1945, 101.7131 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(151, 189, 255) }
```



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

```
.border{ border-color:rgb(151, 189, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(151, 189, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(151, 189, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(151, 189, 255);  
box-shadow:4px 4px 4px 4px rgb(151, 189,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.0101, 50.1945, 101.7131 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(151, 189, 255) }
```

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

```
.background{ background-color: rgb(151,  
189, 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