

# Converting Colors

XYZ(46.1147, 51.1480,  
103.9826)

Have a look what the booklet for  
XYZ(46.1147, 51.1480, 103.9826)  
contains.

<b>XYZ(45.9014, 51.2175, 102.0744)</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(45.9014, 51.2175,  
102.0744)**

# Conversions

## Conversions Part 1

Format	Color
Hex	79C5FF
RGB	121, 197, 255
RGB Percent	47%, 77%, 100%
CMY	0.5255, 0.2274, 0.0000
CMYK	0.53, 0.23, 0.00, 0.00
HSL	206°, 100%, 74%
HSV	206°, 53%, 100%
XYZ	45.9014, 51.2175, 102.0744
YIQ	180.8880, -63.9140, 1.9260

# Conversions

## Conversions Part 2

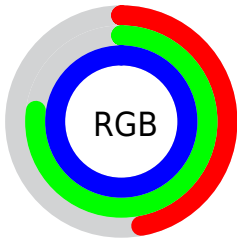
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	121, 169, 255
Decimal	7980543
CIE Lab	76.81, -7.76, -35.72
CIE LCh	77, 36.557, 257.740
Yxy	51.2175, 0.2304, 0.2571
Android (android.graphics.Color)	4286170623 (0xFF79C5FF)
YUV	180.8880, 36.5372, -52.5218
Hunter-Lab	71.5664, -10.7545, -34.4682

# Details

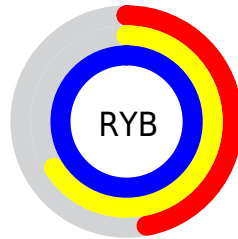
The XYZ color **45.9014, 51.2175, 102.0744** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **60.8123, 54.8820, 25.4793**, and the grayscale version is **43.6957, 45.9713, 50.0628**.

A 20% lighter version of the original color is **72.3142, 87.8069, 107.7448**, and **21.7604, 24.6217, 57.0316** is the 20% darker color. If you saturate the color by 10%, you get **40.3738, 44.7835, 101.1239**, and if you desaturate by 10%, it is **52.5599, 58.5089, 103.1309**.

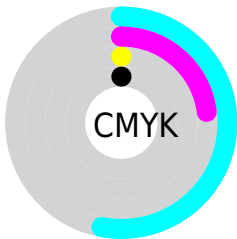
# Distribution



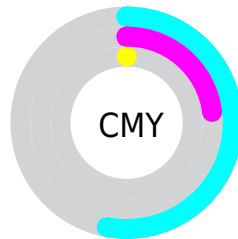
- Red (47%)
- Green (77%)
- Blue (100%)



- Red (47%)
- Yellow (66%)
- Blue (100%)



- Cyan (53%)
- Magenta (23%)
- Yellow (0%)
- Black (0%)



- Cyan (53%)
- Magenta (23%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 45.9014, 51.2175, 102.0744 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 45.9014, 51.2175, 102.0744 by changing the saturation by 10% instead.



■ 45.9014, 51.2175,  
102.0744

■ 45.9014, 51.2175,  
102.0744

361.1347,  
391.4082, 588.1265

■ 32.3723, 36.3817,  
77.4076

■ 83.3002, 91.9762,  
166.0816

■ 21.8030, 24.7292,  
57.0739

■ 107.9006,  
118.6679, 206.2592

■ 13.8280, 15.8754,  
40.6548

■ 136.9222,  
150.0804, 252.4440

■ 8.0820, 9.4360,  
27.7318

170.7302,  
186.5981, 305.0546

■ 4.1997, 5.0267,  
17.8863

209.6902,  
228.6053, 364.5097

■ 1.8157, 2.2629,  
10.6998

254.1673,

■ 0.5271, 0.7540,

276.4864, 431.2276

5.7537

304.5270,  
330.6260, 505.6271

■ 0.0000, 0.0000,  
2.6296

■ 0.0000, 0.0000,  
0.9077

■ 45.9014, 51.2175,  
102.0744

■ 45.9014, 51.2175,  
102.0744

■ 40.3738, 44.7835,  
101.1239

■ 52.5599, 58.5089,  
103.1309

■ 35.8923, 39.1545,  
100.2736

■ 60.4164, 66.6949,  
104.2969

■ 32.3666, 34.2788,  
99.5183

■ 69.5375, 75.8163,  
105.5767

■ 29.6861, 30.0933,  
98.8517

■ 79.9836, 85.9096,  
106.9744

■ 28.1186, 27.3572,  
98.4062

■ 91.8110, 97.0088,  
108.4934

95.0500, 100.0000,  
108.9000

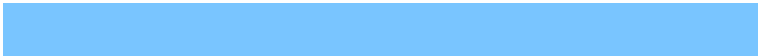
# Harmonies

## Analogous

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



40.2461, 51.2175, 89.1064



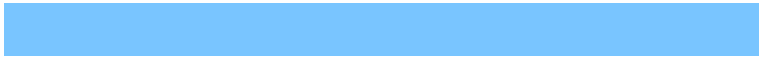
45.9014, 51.2175, 102.0744



52.8613, 51.2175, 100.6658

# Triad

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



45.9014, 51.2175, 102.0744



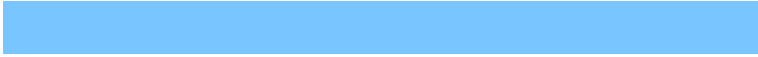
62.5300, 51.2175, 44.9133



39.4566, 51.2175, 33.8106

# Complementary

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



45.9014, 51.2175, 102.0744



60.8123, 54.8820, 25.4793

# 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.



44.7265, 51.2175, 26.7104



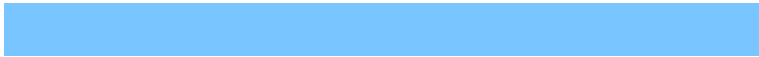
45.9014, 51.2175, 102.0744



58.2184, 51.2175, 31.9933

# Square

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



45.9014, 51.2175, 102.0744



62.9211, 51.2175, 64.2834



51.5700, 51.2175, 26.1357

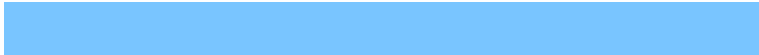


36.7694, 51.2175, 48.0383



# Rectangle

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



45.9014, 51.2175, 102.0744



57.3146, 51.2175, 91.7812



51.5700, 51.2175, 26.1357



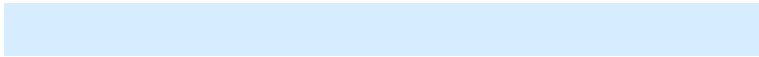
40.9606, 51.2175, 30.6740

# Sweetspot

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



45.9030, 51.2193, 102.0747



76.2228, 82.3120, 106.4782



51.5656, 78.7532, 53.9929



15.8516, 17.1712, 22.7289



0.0000, 0.0000, 0.0000

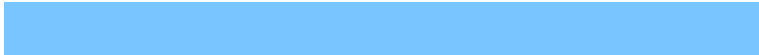


20.3446, 21.4041, 23.3091

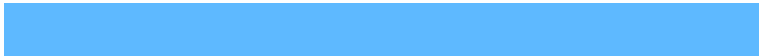


# Same Dimension

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



45.9030, 51.2193, 102.0747



40.1486, 44.5112, 101.0832



34.2107, 27.8347, 98.1773



17.8581, 19.0878, 22.9930



14.8439, 14.5973, 51.4698



1.5540, 1.6386, 5.0477



# Inverse Universe

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



58.1565, 38.9676, 57.2815



54.0801, 32.8503, 49.6474



76.9923, 87.2420, 30.8726



18.4410, 18.1597, 20.9395



24.2807, 12.2016, 15.3945

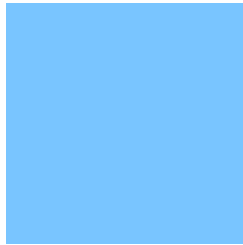


2.4190, 1.2100, 1.7877



# Previews

## White Background



This preview shows how the XYZ color 45.9014, 51.2175, 102.0744 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

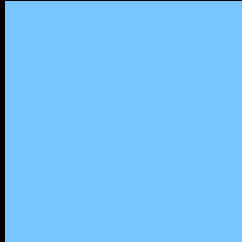
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 45.9014, 51.2175, 102.0744 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

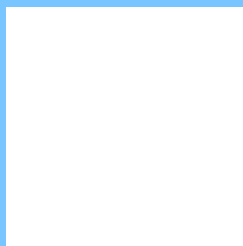
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 45.9014, 51.2175, 102.0744

## Background



This preview shows how black text looks on a background with the XYZ color 45.9014, 51.2175, 102.0744.



This preview shows how white text looks on a background with the XYZ color 45.9014, 51.2175,



# 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

45.9014, 51.2175, 102.0744

### Protanopia

51.3607, 50.6039, 95.0562

### Deuteranopia

51.9711, 50.7728, 101.6687



## Tritanopia

40.5809, 51.1304, 75.4405

# Trichromacy



## Original Color

45.9014, 51.2175, 102.0744

## Protanomaly

48.8056, 50.5013, 97.6179

## Deuteranomaly

49.4124, 50.7223, 101.7938

## Tritanomaly

42.4047, 51.1672, 84.7321

# Monochromacy



## Original Color

45.9014, 51.2175, 102.0744

## Achromatopsia

43.9204, 46.2077, 50.3202

## Achromatomaly

43.4536, 47.4656, 66.5460

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 45.9014, 51.2175, 102.0744 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(121, 197, 255)` looks like.

```
.text, #text, p{  
    color:rgb(121, 197, 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(121, 197, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 197, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 45.9014, 51.2175, 102.0744 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(121, 197, 255) }
```



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

```
.border{ border-color:rgb(121, 197, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 197, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 197, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 197, 255);  
box-shadow:4px 4px 4px 4px rgb(121, 197,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 45.9014, 51.2175, 102.0744 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 197, 255) }
```

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

```
.background{ background-color: rgb(121,  
197, 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