

# Converting Colors

XYZ(50.0535, 59.7594,  
103.5044)

Have a look what the booklet for  
XYZ(50.0535, 59.7594, 103.5044)  
contains.

<b>XYZ(50.0962, 59.8139, 103.5126)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# **Color**

**XYZ(50.0962, 59.8139,  
103.5126)**

# Conversions

## Conversions Part 1

Format	Color
Hex	78D7FF
RGB	120, 215, 255
RGB Percent	47%, 84%, 100%
CMY	0.5294, 0.1569, 0.0000
CMYK	0.53, 0.16, 0.00, 0.00
HSL	198°, 100%, 74%
HSV	198°, 53%, 100%
XYZ	50.0962, 59.8139, 103.5126
YIQ	191.1550, -69.4600, -7.7000

# Conversions

## Conversions Part 2

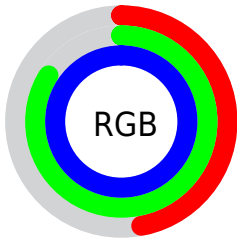
<b>Format</b>	<b>Color</b>
<b>RYB</b>	120, 176, 255
Decimal	7919615
CIELab	81.74, -17.39, -28.14
CIELCh	82, 33.085, 238.283
Yxy	59.8139, 0.2347, 0.2803
Android (android.graphics.Color)	4286109695 (0xFF78D7FF)
YUV	191.1550, 31.4756, -62.4029
Hunter-Lab	77.3394, -19.7216, -25.2173

# Details

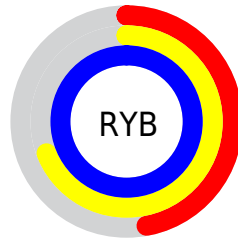
The XYZ color **50.0962, 59.8139, 103.5126** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **57.2021, 47.7592, 23.9751**, and the grayscale version is **49.4650, 52.0410, 56.6726**.

A 20% lighter version of the original color is **72.6324, 88.4433, 107.8509**, and **24.3394, 30.0311, 57.9398** is the 20% darker color. If you saturate the color by 10%, you get **45.1397, 54.4695, 102.7423**, and if you desaturate by 10%, it is **56.0865, 65.8256, 104.3573**.

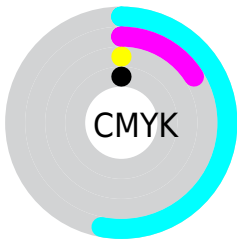
# Distribution



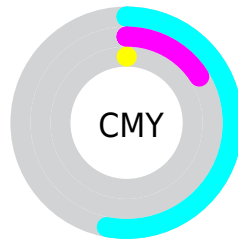
- Red (47%)
- Green (84%)
- Blue (100%)



- Red (47%)
- Yellow (69%)
- Blue (100%)



- Cyan (53%)
- Magenta (16%)
- Yellow (0%)
- Black (0%)



- Cyan (53%)
- Magenta (16%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.0962, 59.8139, 103.5126 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 50.0962, 59.8139, 103.5126 by changing the saturation by 10% instead.



50.0962, 59.8139,  
103.5126

50.0962, 59.8139,  
103.5126

377.4878,  
423.9115, 592.7392

35.7080, 43.2686,  
78.6041

89.5084, 104.5597,  
168.0698

24.3778, 30.0960,  
58.0510

115.2630,  
133.5290, 208.5556

15.7404, 19.9114,  
41.4347

145.5371,  
167.4084, 255.0709

9.4303, 12.3307,  
28.3366

180.6961,  
206.5824, 308.0343

5.0822, 6.9693,  
18.3383

221.1053,  
251.4353, 367.8643

2.3308, 3.4429,  
11.0212

267.1301,

0.8104, 1.3671,

302.3515, 434.9794

5.9667

319.1358,  
359.7154, 509.7982

■ 0.0000, 0.1923,  
2.7564

■ 0.0000, 0.0000,  
0.9716

■ 50.0962, 59.8139,  
103.5126

■ 50.0962, 59.8139,  
103.5126

■ 45.1397, 54.4695,  
102.7423

■ 56.0865, 65.8256,  
104.3573

■ 41.1341, 49.7442,  
102.0413

■ 63.1746, 72.5357,  
105.2789

■ 37.9914, 45.5921,  
101.4055

■ 71.4254, 79.9805,  
106.2810

■ 35.6029, 41.9553,  
100.8295

■ 80.8967, 88.1915,  
107.3667

■ 34.2597, 39.6394,  
100.4532

■ 91.6427, 97.1981,  
108.5388

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.



45.8528, 59.8139, 85.0470



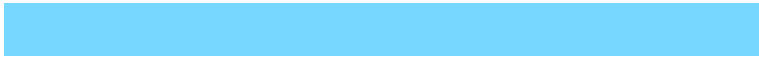
50.0962, 59.8139, 103.5126



56.4509, 59.8139, 111.4882

# Triad

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



50.0962, 59.8139, 103.5126



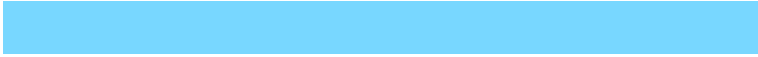
71.3184, 59.8139, 66.2834



50.7379, 59.8139, 36.8499

# Complementary

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



50.0962, 59.8139, 103.5126



57.2021, 47.7592, 23.9751

# 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.



57.2536, 59.8139, 33.8161



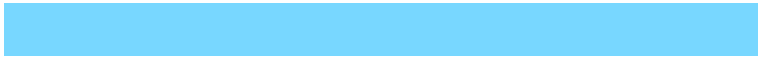
50.0962, 59.8139, 103.5126



69.4814, 59.8139, 48.5893

# Square

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



50.0962, 59.8139, 103.5126



69.0236, 59.8139, 87.4478



64.1879, 59.8139, 37.6419

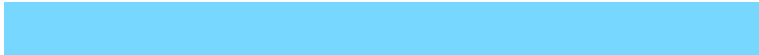


46.2014, 59.8139, 46.9699



# Rectangle

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



50.0962, 59.8139, 103.5126



61.1577, 59.8139, 108.7642



64.1879, 59.8139, 37.6419



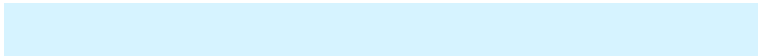
52.7520, 59.8139, 35.0712

# Sweetspot

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



50.0979, 59.8160, 103.5130



77.8641, 85.5944, 107.0252



49.7002, 77.9910, 44.8973



16.2439, 17.9559, 22.8596



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.



50.0979, 59.8160, 103.5130



44.6708, 53.9392, 102.6646



36.5846, 32.7894, 99.0085



18.0737, 19.5191, 23.0649



18.0377, 20.9849, 52.5344



1.8514, 2.2336, 5.1468



# Inverse Universe

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



60.2235, 39.6011, 68.7617



56.2691, 33.3674, 62.2795



71.7594, 76.8739, 28.8276



18.5499, 18.2033, 21.5127



25.8928, 12.8464, 23.8836

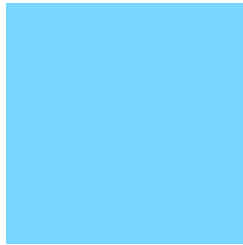


2.5691, 1.2700, 2.5784



# Previews

## White Background



This preview shows how the XYZ color 50.0962, 59.8139, 103.5126 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

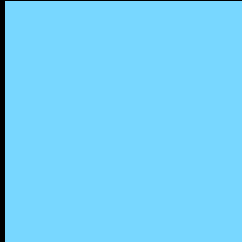
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.0962, 59.8139, 103.5126 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

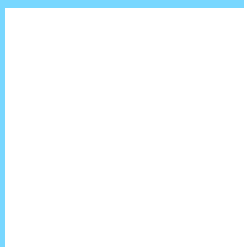
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 50.0962, 59.8139, 103.5126

## Background



This preview shows how black text looks on a background with the XYZ color 50.0962, 59.8139, 103.5126.



This preview shows how white text looks on a background with the XYZ color 50.0962, 59.8139,



# 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

50.0962, 59.8139, 103.5126

### Protanopia

58.8739, 59.1076, 94.6921

### Deuteranopia

60.4657, 59.4043, 102.8870



## Tritanopia

47.0218, 59.7096, 88.4037

# Trichromacy



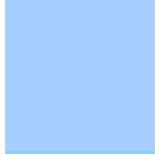
## Original Color

50.0962, 59.8139, 103.5126



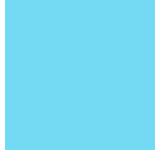
## Protanomaly

54.6561, 58.6092, 98.0546



## Deuteranomaly

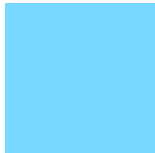
55.6072, 58.9896, 103.0631



## Tritanomaly

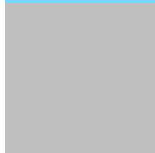
48.1930, 59.8098, 93.7984

# Monochromacy



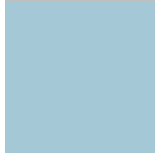
## Original Color

50.0962, 59.8139, 103.5126



## Achromatopsia

49.5206, 52.0996, 56.7364



## Achromatomaly

48.3089, 54.1629, 71.5267

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.0962, 59.8139, 103.5126 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(120, 215, 255)` looks like.

```
.text, #text, p{  
    color:rgb(120, 215, 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(120, 215, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 215, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 50.0962, 59.8139, 103.5126 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(120, 215, 255) }
```



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

```
.border{ border-color:rgb(120, 215, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 215, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 215, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 215, 255);  
box-shadow:4px 4px 4px 4px rgb(120, 215,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.0962, 59.8139, 103.5126 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 215, 255) }
```

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

```
.background{ background-color: rgb(120,  
215, 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