

# Converting Colors

XYZ(67.0796, 63.9673,  
161.9030)

Have a look what the booklet for  
XYZ(67.0796, 63.9673, 161.9030)  
contains.

<b>XYZ(55.8472, 59.4696, 103.1431)</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(55.8472, 59.4696,  
103.1431)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6CEFF
RGB	166, 206, 255
RGB Percent	65%, 81%, 100%
CMY	0.3490, 0.1921, 0.0000
CMYK	0.35, 0.19, 0.00, 0.00
HSL	213°, 100%, 83%
HSV	213°, 35%, 100%
XYZ	55.8472, 59.4696, 103.1431
YIQ	199.6260, -39.5690, 6.7590

# Conversions

## Conversions Part 2

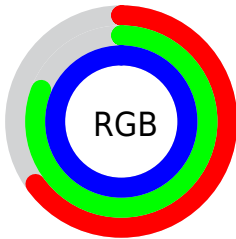
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	166, 194, 255
Decimal	10931967
CIE Lab	81.55, -1.69, -28.23
CIE LCh	82, 28.284, 266.584
Yxy	59.4696, 0.2556, 0.2722
Android (android.graphics.Color)	4289122047 (0xFFA6CEFF)
YUV	199.6260, 27.2994, -29.4900
Hunter-Lab	77.1165, -5.6856, -25.3186

# Details

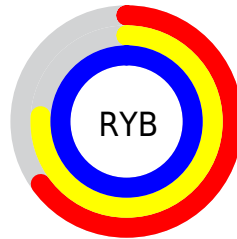
The XYZ color **55.8472, 59.4696, 103.1431** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **72.4238, 72.6143, 46.2771**, and the grayscale version is **54.5263, 57.3659, 62.4715**.

A 20% lighter version of the original color is **84.2414, 94.4280, 108.3942**, and **27.9768, 29.9132, 57.7254** is the 20% darker color. If you saturate the color by 10%, you get **47.7923, 50.5232, 101.8408**, and if you desaturate by 10%, it is **65.2672, 69.5706, 104.5963**.

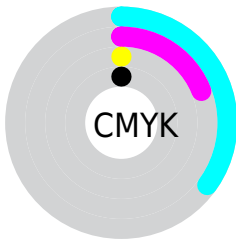
# Distribution



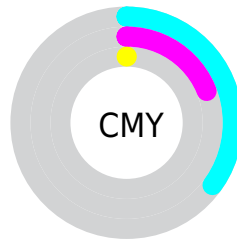
- Red (65%)
- Green (81%)
- Blue (100%)



- Red (65%)
- Yellow (76%)
- Blue (100%)



- Cyan (35%)
- Magenta (19%)
- Yellow (0%)
- Black (0%)



- Cyan (35%)
- Magenta (19%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.8472, 59.4696, 103.1431 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 55.8472, 59.4696, 103.1431 by changing the saturation by 10% instead.



■ 55.8472, 59.4696,  
103.1431

■ 55.8472, 59.4696,  
103.1431

399.1998,  
422.6400, 591.5559

■ 40.3169, 42.9913,  
78.2966

■ 97.9222, 104.0599,  
167.5593

■ 27.9711, 29.8783,  
57.7998

■ 125.1977,  
132.9406, 207.9660

■ 18.4442, 19.7462,  
41.2341

157.1190,  
166.7242, 254.3966

■ 11.3710, 12.2107,  
28.1809

194.0515,  
205.7952, 307.2696

■ 6.3861, 6.8873,  
18.2219

236.3604,  
250.5378, 367.0035

■ 3.1241, 3.3917,  
10.9383

284.4112,

■ 1.2197, 1.3395,

301.3366, 434.0168

5.9117

338.5692,  
358.5758, 508.7281

■ 0.1219, 0.1715,  
2.7236

■ 0.0000, 0.0000,  
0.9552

■ 55.8472, 59.4696,  
103.1431

■ 55.8472, 59.4696,  
103.1431

■ 47.7923, 50.5232,  
101.8408

■ 65.2672, 69.5706,  
104.5963

■ 41.0264, 42.6764,  
100.6828

■ 76.1125, 80.8644,  
106.2046

■ 35.4736, 35.8794,  
99.6635

■ 88.4456, 93.3954,  
107.9733

■ 31.0467, 30.0744,  
98.7763

95.0500, 100.0000,  
108.9000

■ 27.6454, 25.1964,  
98.0141

■ 25.1474, 21.1683,  
97.3682

■ 24.1365, 19.3930,  
97.0788

# Harmonies

## Analogous

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



50.4721, 59.4696, 96.0271



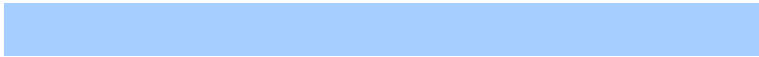
55.8472, 59.4696, 103.1431



61.7840, 59.4696, 98.5805

# Triad

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



55.8472, 59.4696, 103.1431



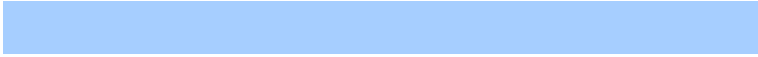
67.3508, 59.4696, 51.2054



47.5274, 59.4696, 48.3764

# Complementary

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



55.8472, 59.4696, 103.1431



72.4238, 72.6143, 46.2771

# 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.



51.5715, 59.4696, 39.7112



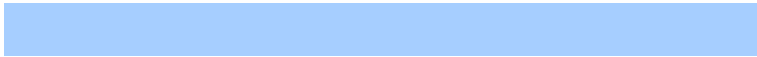
55.8472, 59.4696, 103.1431



63.0415, 59.4696, 41.1328

# Square

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



55.8472, 59.4696, 103.1431



68.6923, 59.4696, 66.7181



57.2064, 59.4696, 37.3101

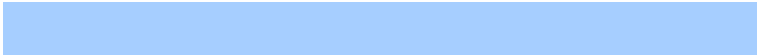


45.8850, 59.4696, 62.8254



# Rectangle

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



55.8472, 59.4696, 103.1431



65.2213, 59.4696, 89.8997



57.2064, 59.4696, 37.3101



48.6366, 59.4696, 44.7950

# Sweetspot

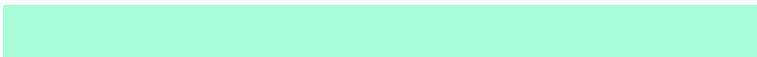
The Sweet Spot groups the original color and five complimentary colors.



55.8489, 59.4718, 103.1434



81.9667, 86.8480, 107.0510



63.7463, 84.5312, 77.2139



17.1770, 18.2152, 22.8605



0.0000, 0.0000, 0.0000

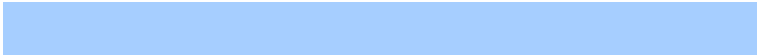


20.3446, 21.4041, 23.3091



# Same Dimension

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



55.8489, 59.4718, 103.1434



49.9929, 53.0030, 102.2034



48.3628, 43.0906, 100.3761



17.6753, 18.7221, 22.9321



12.7560, 10.4215, 50.7738



1.3492, 1.2291, 4.9794



# Inverse Universe

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



66.0180, 52.9903, 65.1435



61.7822, 46.3956, 57.9454



82.2651, 94.6991, 50.0212



18.3487, 18.1228, 20.4536



23.2268, 11.7800, 9.8449

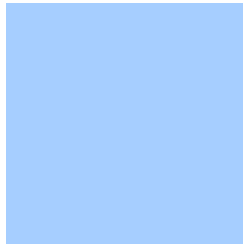


2.3156, 1.1686, 1.2435



# Previews

## White Background



This preview shows how the XYZ color 55.8472, 59.4696, 103.1431 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

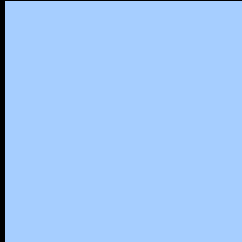
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.8472, 59.4696, 103.1431 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

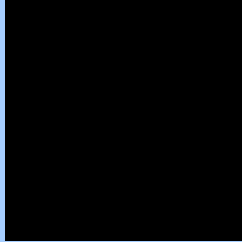
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

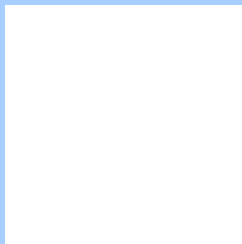
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 55.8472, 59.4696, 103.1431

## Background



This preview shows how black text looks on a background with the XYZ color 55.8472, 59.4696, 103.1431.



This preview shows how white text looks on a background with the XYZ color 55.8472, 59.4696,



# 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

55.8472, 59.4696, 103.1431

### Protanopia

59.3021, 59.2207, 99.5720

### Deuteranopia

60.4922, 59.0775, 102.8226



## Tritanopia

51.7951, 59.6636, 82.1851

# Trichromacy



## Original Color

55.8472, 59.4696, 103.1431

## Protanomaly

57.7473, 59.0931, 100.4580

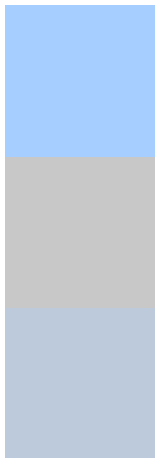
## Deuteranomaly

58.7038, 59.1836, 102.9373

## Tritanomaly

53.1334, 59.4554, 89.5645

# Monochromacy



## Original Color

55.8472, 59.4696, 103.1431

## Achromatopsia

54.8990, 57.7580, 62.8985

## Achromatomaly

54.7778, 58.0997, 76.0374

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.8472, 59.4696, 103.1431 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(166, 206, 255)` looks like.

```
.text, #text, p{  
    color:rgb(166, 206, 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(166, 206, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 206, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 55.8472, 59.4696, 103.1431 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(166, 206, 255) }
```



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

```
.border{ border-color:rgb(166, 206, 255) }
```

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

Here you see how a box with a 4 pixel rgb(166, 206, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 206, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 206, 255);  
box-shadow:4px 4px 4px 4px rgb(166, 206,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.8472, 59.4696, 103.1431 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 206, 255) }
```

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

```
.background{ background-color: rgb(166,  
206, 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