

# Converting Colors

XYZ(68.2130, 73.6166,  
105.2220)

Have a look what the booklet for  
XYZ(68.2130, 73.6166, 105.2220)  
contains.

<b>XYZ(68.0113, 73.3485, 105.1808)</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(68.0113, 73.3485,  
105.1808)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C4E2FF
RGB	196, 226, 255
RGB Percent	77%, 89%, 100%
CMY	0.2314, 0.1137, 0.0000
CMYK	0.23, 0.11, 0.00, 0.00
HSL	209°, 100%, 88%
HSV	209°, 23%, 100%
XYZ	68.0113, 73.3485, 105.1808
YIQ	220.3360, -27.1890, 2.6590

# Conversions

## Conversions Part 2

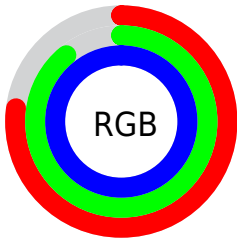
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	196, 216, 255
Decimal	12903167
CIE Lab	88.61, -3.70, -17.34
CIE LCh	89, 17.730, 257.939
Yxy	73.3485, 0.2759, 0.2975
Android (android.graphics.Color)	4291093247 (0xFFC4E2FF)
YUV	220.3360, 17.0894, -21.3427
Hunter-Lab	85.6437, -8.1263, -12.8646

# Details

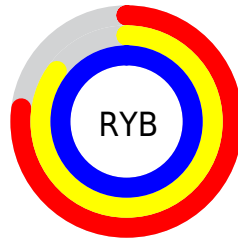
The XYZ color **68.0113, 73.3485, 105.1808** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **78.1289, 79.0951, 63.3753**, and the grayscale version is **68.1618, 71.7115, 78.0939**.

A 20% lighter version of the original color is **94.3180, 99.6226, 108.8657**, and **35.7405, 38.8658, 59.0442** is the 20% darker color. If you saturate the color by 10%, you get **58.6497, 63.6486, 103.8020**, and if you desaturate by 10%, it is **78.7533, 84.1335, 106.6964**.

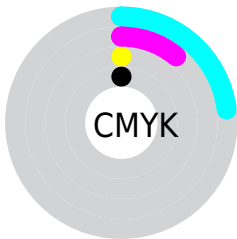
# Distribution



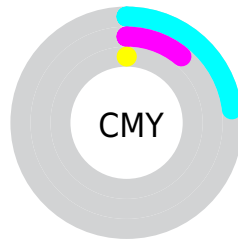
- Red (77%)
- Green (89%)
- Blue (100%)



- Red (77%)
- Yellow (85%)
- Blue (100%)



- Cyan (23%)
- Magenta (11%)
- Yellow (0%)
- Black (0%)



- Cyan (23%)
- Magenta (11%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 68.0113, 73.3485, 105.1808 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 68.0113, 73.3485, 105.1808 by changing the saturation by 10% instead.



■ 68.0113, 73.3485,  
105.1808

■ 68.0113, 73.3485,  
105.1808

442.9121,  
472.2218, 598.0661

■ 50.1806, 54.2610,  
79.9933

115.4101,  
123.9718, 170.3725

■ 35.7753, 38.8103,  
59.1867

145.7090,  
156.2764, 211.2138

■ 24.4300, 26.6122,  
42.3425

180.8947,  
193.7555, 258.1101

■ 15.7794, 17.2822,  
29.0420

221.3325,  
236.7934, 311.4800

■ 9.4580, 10.4359,  
18.8667

267.3878,  
285.7746, 371.7420

■ 5.1006, 5.6889,  
11.3982

319.4259,

■ 2.3418, 2.6569,

341.0835, 439.3147

6.2178

377.8122,  
403.1044, 514.6165

■ 0.8159, 0.9553,  
2.9070

■ 0.0000, 0.0000,  
1.0474

■ 68.0113, 73.3485,  
105.1808

■ 68.0113, 73.3485,  
105.1808

■ 58.6497, 63.6486,  
103.8020

■ 78.7533, 84.1335,  
106.6964

■ 50.6001, 54.9851,  
102.5540

■ 90.9277, 96.0326,  
108.3515

■ 43.7973, 47.3182,  
101.4327

95.0500, 100.0000,  
108.9000

■ 38.1671, 40.6013,  
100.4330

■ 33.6271, 34.7831,  
99.5492

■ 30.0824, 29.8056,  
98.7753

■ 27.4185, 25.6004,  
98.1040

■ 25.9895, 23.0989,  
97.6965

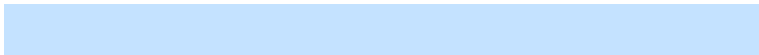
# Harmonies

## Analogous

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



64.3503, 73.3485, 98.6567



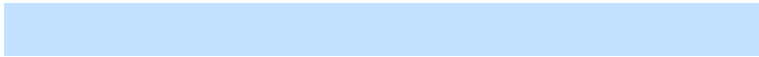
68.0113, 73.3485, 105.1808



72.2792, 73.3485, 104.4315

# Triad

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



68.0113, 73.3485, 105.1808



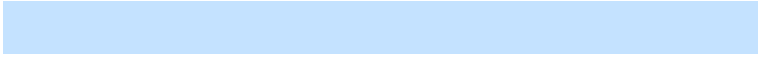
77.8356, 73.3485, 72.8274



63.7866, 73.3485, 65.1025

# Complementary

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



68.0113, 73.3485, 105.1808



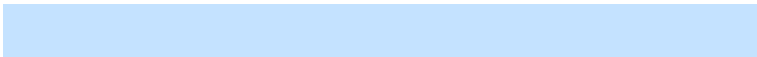
78.1289, 79.0951, 63.3753

# 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.



67.2132, 73.3485, 59.4875



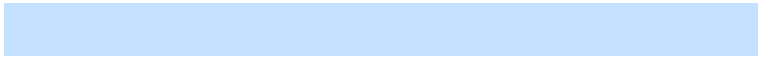
68.0113, 73.3485, 105.1808



75.3711, 73.3485, 63.6236

# Square

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



68.0113, 73.3485, 105.1808



78.0708, 73.3485, 84.8870



71.4480, 73.3485, 58.9753

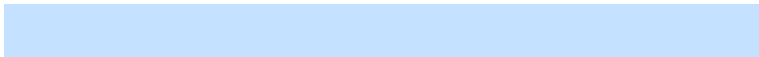


61.9788, 73.3485, 75.0433



# Rectangle

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



68.0113, 73.3485, 105.1808



74.8948, 73.3485, 99.9156



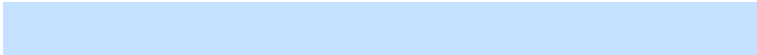
71.4480, 73.3485, 58.9753



64.7808, 73.3485, 62.6924

# Sweetspot

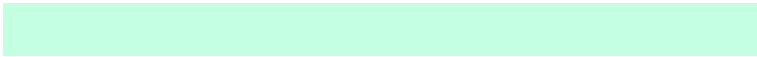
The Sweet Spot groups the original color and five complimentary colors.



68.0133, 73.3514, 105.1813



86.0501, 91.3002, 107.6951



72.0506, 88.6661, 84.2068



18.2594, 19.3871, 23.0297



0.0000, 0.0000, 0.0000

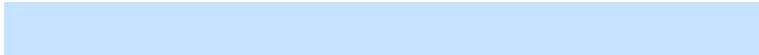


20.3446, 21.4041, 23.3091

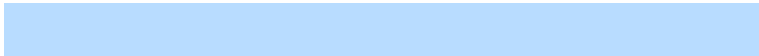


# Same Dimension

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



68.0133, 73.3514, 105.1813



63.2908, 68.4996, 104.4937



60.7788, 58.8824, 102.7698



17.7667, 18.9049, 22.9626



13.7299, 12.3694, 51.0985



1.4462, 1.4230, 5.0117



# Inverse Universe

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



74.7087, 66.2324, 80.8014



71.2037, 60.5375, 75.5790



86.6512, 96.1399, 66.2161



18.3949, 18.1413, 20.6965



23.7184, 11.9767, 12.4336

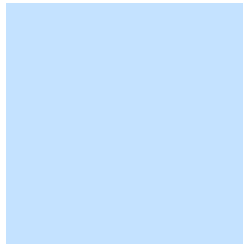


2.3646, 1.1882, 1.5012



# Previews

## White Background



This preview shows how the XYZ color 68.0113, 73.3485, 105.1808 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

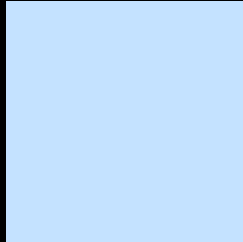
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 68.0113, 73.3485, 105.1808 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

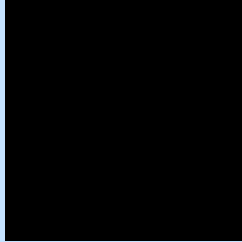
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

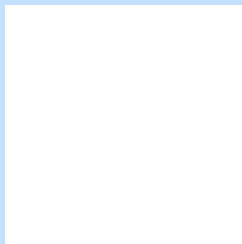
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 68.0113, 73.3485, 105.1808

## Background



This preview shows how black text looks on a background with the XYZ color 68.0113, 73.3485, 105.1808.



This preview shows how white text looks on a background with the XYZ color 68.0113, 73.3485,



# 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

68.0113, 73.3485, 105.1808

### Protanopia

71.6211, 72.9031, 101.5637

### Deuteranopia

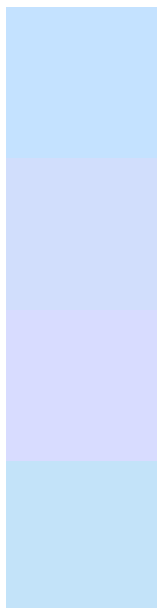
74.5414, 73.1766, 104.8035



## Tritanopia

66.6261, 73.6100, 97.8854

# Trichromacy



## Original Color

68.0113, 73.3485, 105.1808

## Protanomaly

69.9865, 72.8261, 102.4636

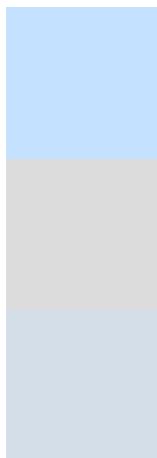
## Deuteranomaly

71.9621, 73.0053, 104.9064

## Tritanomaly

67.0736, 73.3798, 100.2511

# Monochromacy



## Original Color

68.0113, 73.3485, 105.1808

## Achromatopsia

68.0267, 71.5694, 77.9390

## Achromatomaly

67.6932, 71.9746, 87.4155

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 68.0113, 73.3485, 105.1808 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(196, 226, 255)` looks like.

```
.text, #text, p{  
    color:rgb(196, 226, 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(196, 226, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 226, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 68.0113, 73.3485, 105.1808 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(196, 226, 255) }
```



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

```
.border{ border-color:rgb(196, 226, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(196, 226, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 226, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 226, 255);  
box-shadow:4px 4px 4px 4px rgb(196, 226,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 68.0113, 73.3485, 105.1808 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 226, 255) }
```

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

```
.background{ background-color: rgb(196,  
226, 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