

# Converting Colors

XYZ(66.8884, 74.3998,  
105.4429)

Have a look what the booklet for  
XYZ(66.8884, 74.3998, 105.4429)  
contains.

<b>XYZ(66.8403, 74.3784, 105.4414)</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(66.8403, 74.3784,  
105.4414)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBE6FF
RGB	187, 230, 255
RGB Percent	73%, 90%, 100%
CMY	0.2667, 0.0980, 0.0000
CMYK	0.27, 0.10, 0.00, 0.00
HSL	202°, 100%, 87%
HSV	202°, 27%, 100%
XYZ	66.8403, 74.3784, 105.4414
YIQ	219.9930, -33.6530, -1.3410

# Conversions

## Conversions Part 2

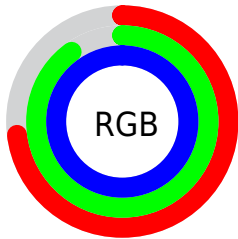
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	187, 213, 255
Decimal	12314367
CIE Lab	89.10, -8.39, -16.66
CIE LCh	89, 18.653, 243.281
Yxy	74.3784, 0.2710, 0.3015
Android (android.graphics.Color)	4290504447 (0xFFBBE6FF)
YUV	219.9930, 17.2585, -28.9349
Hunter-Lab	86.2429, -12.5834, -12.1185

# Details

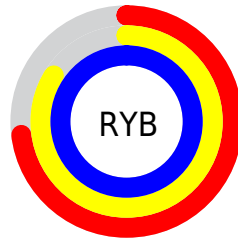
The XYZ color **66.8403, 74.3784, 105.4414** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **73.7531, 71.9343, 57.0129**, and the grayscale version is **67.9245, 71.4619, 77.8220**.

A 20% lighter version of the original color is **91.1182, 97.9731, 108.7160**, and **35.0387, 39.6427, 59.2311** is the 20% darker color. If you saturate the color by 10%, you get **58.6086, 66.3675, 104.3290**, and if you desaturate by 10%, it is **76.3240, 83.2466, 106.6532**.

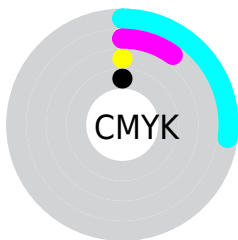
# Distribution



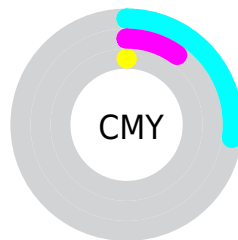
- Red (73%)
- Green (90%)
- Blue (100%)



- Red (73%)
- Yellow (84%)
- Blue (100%)



- Cyan (27%)
- Magenta (10%)
- Yellow (0%)
- Black (0%)



- Cyan (27%)
- Magenta (10%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.8403, 74.3784, 105.4414 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 66.8403, 74.3784, 105.4414 by changing the saturation by 10% instead.



66.8403, 74.3784,  
105.4414

66.8403, 74.3784,  
105.4414

438.8175,  
475.7783, 598.8960

49.2251, 55.1038,  
80.2105

113.7426,  
125.4321, 170.7319

35.0133, 39.4848,  
59.3644

143.7604,  
157.9799, 211.6285

23.8397, 27.1371,  
42.4846

178.6431,  
195.7210, 258.5841

15.3388, 17.6762,  
29.1525

218.7560,  
239.0397, 312.0173

9.1454, 10.7178,  
18.9497

264.4646,  
288.3204, 372.3465

4.8940, 5.8774,  
11.4575

316.1341,

2.2193, 2.7707,

343.9474, 439.9904

6.2574

374.1300,  
406.3053, 515.3673

■ 0.7529, 1.0132,  
2.9309

■ 0.0000, 0.0000,  
1.0595

■ 66.8403, 74.3784,  
105.4414

■ 66.8403, 74.3784,  
105.4414

■ 58.6086, 66.3675,  
104.3290

■ 76.3240, 83.2466,  
106.6532

■ 51.5620, 59.1708,  
103.3112

■ 87.1100, 92.9958,  
107.9665

■ 45.6363, 52.7536,  
102.3849

95.0500, 100.0000,  
108.9000

■ 40.7583, 47.0748,  
101.5459

■ 36.8451, 42.0882,  
100.7896

■ 33.7999, 37.7403,  
100.1109

■ 31.5015, 33.9649,  
99.5033

■ 30.8408, 32.8016,  
99.3136

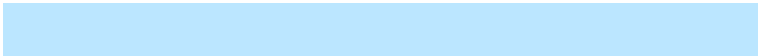
# Harmonies

## Analogous

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



63.6424, 74.3784, 95.4990



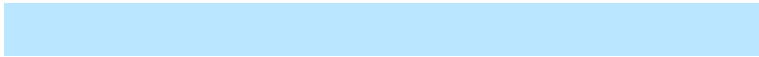
66.8403, 74.3784, 105.4414



71.1953, 74.3784, 108.6079

# Triad

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



66.8403, 74.3784, 105.4414



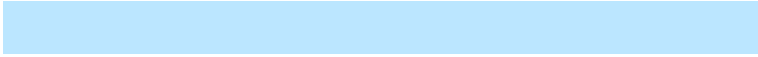
79.7760, 74.3784, 79.5627



66.0100, 74.3784, 61.8252

# Complementary

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



66.8403, 74.3784, 105.4414



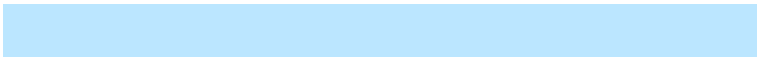
73.7531, 71.9343, 57.0129

# 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.



70.1959, 74.3784, 58.4950



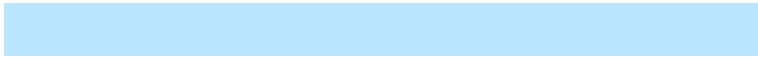
66.8403, 74.3784, 105.4414



78.2490, 74.3784, 68.0223

# Square

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



66.8403, 74.3784, 105.4414



78.7850, 74.3784, 92.7588



74.6940, 74.3784, 60.6375

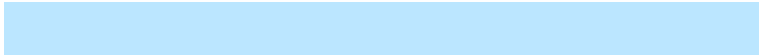


63.1777, 74.3784, 70.2530



# Rectangle

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



66.8403, 74.3784, 105.4414



74.2023, 74.3784, 106.1995



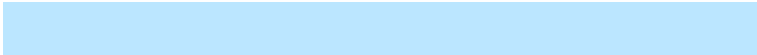
74.6940, 74.3784, 60.6375



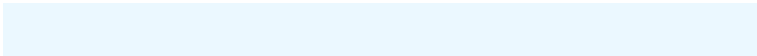
67.2989, 74.3784, 60.1160

# Sweetspot

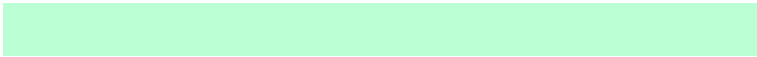
The Sweet Spot groups the original color and five complimentary colors.



66.8423, 74.3813, 105.4418



85.5932, 91.6425, 107.7853



68.1298, 86.8354, 75.4146



17.9606, 19.2929, 23.0272



0.0000, 0.0000, 0.0000

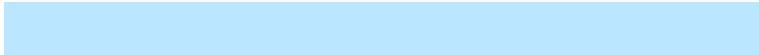


20.3446, 21.4041, 23.3091

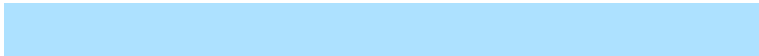


# Same Dimension

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



66.8423, 74.3813, 105.4418



62.2985, 70.0025, 104.8361



58.2998, 57.2963, 102.5943



17.9606, 19.2929, 23.0272



16.2624, 17.4344, 51.9426



1.6878, 1.9063, 5.0923



# Inverse Universe

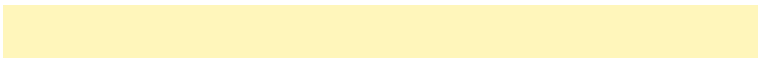
The Inverse Universe completely reimagines the original color for something new.



73.2945, 62.5154, 83.0698



69.8515, 56.7372, 78.5068



83.1456, 90.7192, 60.1437



18.4928, 18.1804, 21.2121



24.9967, 12.4880, 19.1650

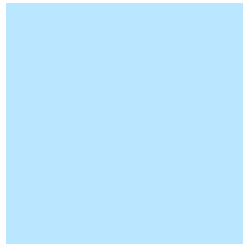


2.4865, 1.2370, 2.1435



# Previews

## White Background



This preview shows how the XYZ color 66.8403, 74.3784, 105.4414 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

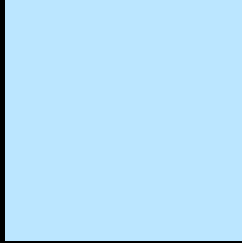
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.8403, 74.3784, 105.4414 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

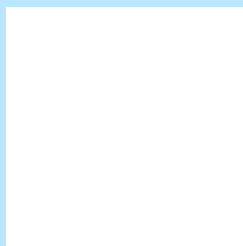
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 66.8403, 74.3784, 105.4414

## Background



This preview shows how black text looks on a background with the XYZ color 66.8403, 74.3784, 105.4414.



This preview shows how white text looks on a background with the XYZ color 66.8403, 74.3784,



# 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

66.8403, 74.3784, 105.4414

### Protanopia

72.5900, 74.2047, 100.9395

### Deuteranopia

75.1163, 73.8568, 104.9045



## Tritanopia

65.9245, 74.4305, 100.5145

# Trichromacy



## Original Color

66.8403, 74.3784, 105.4414

## Protanomaly

70.2280, 74.1441, 102.7053

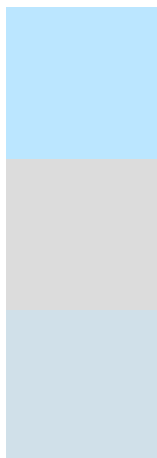
## Deuteranomaly

71.6118, 73.6087, 105.0413

## Tritanomaly

66.2382, 74.5560, 102.1664

# Monochromacy



## Original Color

66.8403, 74.3784, 105.4414

## Achromatopsia

68.0267, 71.5694, 77.9390

## Achromatomaly

67.3761, 72.6044, 87.5537

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.8403, 74.3784, 105.4414 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(187, 230, 255)` looks like.

```
.text, #text, p{  
    color:rgb(187, 230, 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(187, 230, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 230, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 66.8403, 74.3784, 105.4414 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(187, 230, 255) }
```



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

```
.border{ border-color:rgb(187, 230, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 230, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 230, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 230, 255);  
box-shadow:4px 4px 4px 4px rgb(187, 230,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.8403, 74.3784, 105.4414 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 230, 255) }
```

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

```
.background{ background-color: rgb(187,  
230, 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