

# Converting Colors

XYZ(65.9701, 76.3034,  
102.0812)

Have a look what the booklet for  
XYZ(65.9701, 76.3034, 102.0812)  
contains.

<b>XYZ(65.7860, 76.0221, 101.6489)</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(65.7860, 76.0221,  
101.6489)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B4EBFA
RGB	180, 235, 250
RGB Percent	71%, 92%, 98%
CMY	0.2941, 0.0784, 0.0196
CMYK	0.28, 0.06, 0.00, 0.02
HSL	193°, 88%, 84%
HSV	193°, 28%, 98%
XYZ	65.7860, 76.0221, 101.6489
YIQ	220.2650, -37.5950, -6.9950

# Conversions

## Conversions Part 2

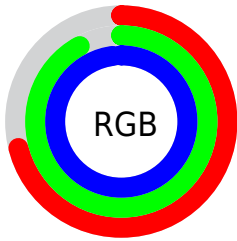
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 211, 250
Decimal	11856890
CIE Lab	89.87, -14.05, -12.94
CIE LCh	90, 19.098, 222.634
Yxy	76.0221, 0.2702, 0.3123
Android (android.graphics.Color)	4290046970 (0xFFB4EBFA)
YUV	220.2650, 14.6594, -35.3124
Hunter-Lab	87.1907, -17.9041, -8.0882

# Details

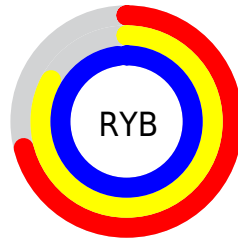
The XYZ color **65.7860, 76.0221, 101.6489** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **67.1785, 62.6499, 51.7336**, and the grayscale version is **68.1340, 71.6823, 78.0620**.

A 20% lighter version of the original color is **88.7351, 96.7445, 108.6045**, and **34.3152, 40.4952, 57.0467** is the 20% darker color. If you saturate the color by 10%, you get **58.9727, 70.2692, 100.8988**, and if you desaturate by 10%, it is **73.6997, 82.4146, 102.4670**.

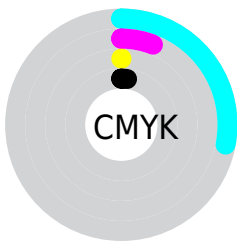
# Distribution



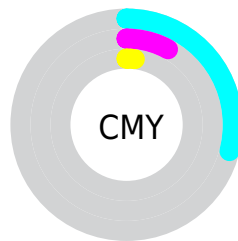
- Red (71%)
- Green (92%)
- Blue (98%)



- Red (71%)
- Yellow (83%)
- Blue (98%)



- Cyan (28%)
- Magenta (6%)
- Yellow (0%)
- Black (2%)



- Cyan (29%)
- Magenta (8%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 65.7860, 76.0221, 101.6489 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 65.7860, 76.0221, 101.6489 by changing the saturation by 10% instead.



65.7860, 76.0221,  
101.6489

65.7860, 76.0221,  
101.6489

435.1119,  
481.4233, 586.7581

48.3658, 56.4506,  
77.0538

112.2386,  
127.7581, 165.4929

34.3291, 40.5643,  
56.7852

142.0016,  
160.6915, 205.5789

23.3106, 27.9788,  
40.4246

176.6096,  
198.8476, 251.6655

14.9450, 18.3097,  
27.5534

216.4280,  
242.6109, 304.1714

8.8668, 11.1726,  
17.7532

261.8220,  
292.3657, 363.5151

4.7108, 6.1830,  
10.6053

313.1571,

2.1116, 2.9567,

348.4965, 430.1151

5.6913

370.7986,  
411.3875, 504.3899

■ 0.6955, 1.1092,  
2.5926

■ 0.0000, 0.0000,  
0.8886

■ 65.7860, 76.0221,  
101.6489

■ 65.7860, 76.0221,  
101.6489

■ 58.9727, 70.2692,  
100.8988

■ 73.6997, 82.4146,  
102.4670

■ 53.1961, 65.1167,  
100.2088

■ 82.7595, 89.4652,  
103.3504

■ 48.3964, 60.5352,  
99.5774

■ 93.0156, 97.2023,  
104.3032

■ 44.5044, 56.4885,  
99.0015

■ 94.2556, 99.6822,  
104.7165

■ 41.4416, 52.9353,  
98.4771

■ 39.1156, 49.8275,  
97.9998

■ 37.4007, 47.0995,  
97.5636

■ 37.0948, 46.5806,  
97.4796

# Harmonies

## Analogous

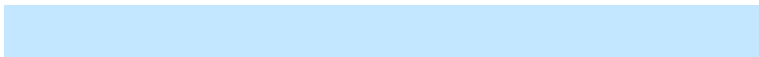
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



63.7611, 76.0221, 88.5888



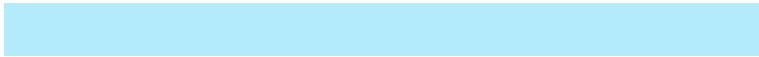
65.7860, 76.0221, 101.6489



69.5827, 76.0221, 110.1304

# Triad

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



65.7860, 76.0221, 101.6489



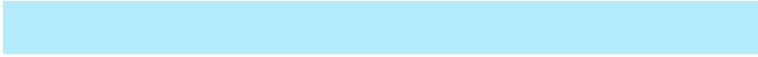
81.2655, 76.0221, 90.7745



70.2906, 76.0221, 59.9233

# Complementary

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



65.7860, 76.0221, 101.6489



67.1785, 62.6499, 51.7336

# 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.



74.9984, 76.0221, 60.3721



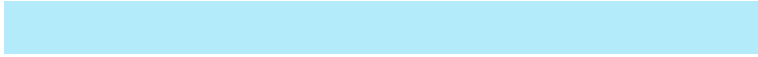
65.7860, 76.0221, 101.6489



81.4753, 76.0221, 77.2216

# Square

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



65.7860, 76.0221, 101.6489



78.5770, 76.0221, 103.3983



79.1384, 76.0221, 66.3954

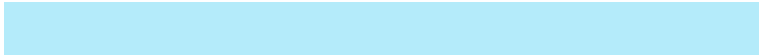


66.2848, 76.0221, 65.0945



# Rectangle

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



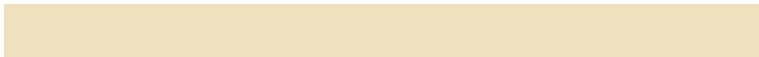
65.7860, 76.0221, 101.6489



72.6744, 76.0221, 111.5358



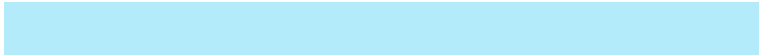
79.1384, 76.0221, 66.3954



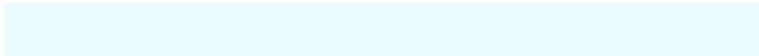
71.8406, 76.0221, 59.4396

# Sweetspot

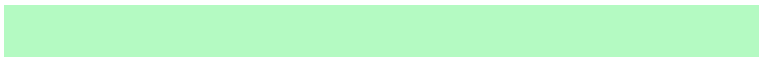
The Sweet Spot groups the original color and five complimentary colors.



65.7883, 76.0251, 101.6506



86.5605, 93.5772, 108.1077



62.7471, 81.9710, 63.5554



18.2052, 19.7819, 23.1087



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

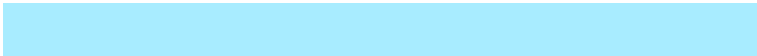


# Same Dimension

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



65.7883, 76.0251, 101.6506



64.3803, 75.8136, 105.8480



56.9659, 58.3804, 98.7098



17.4317, 18.9403, 22.1224



19.7853, 24.9262, 51.7420



1.9083, 2.4602, 4.8175



# Inverse Universe

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



70.7428, 58.9664, 86.2538



70.5002, 55.4570, 86.6694



75.6833, 79.6594, 54.5685



17.8244, 17.4571, 20.9313



26.2787, 12.9272, 29.2400

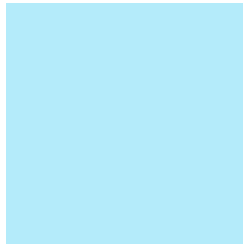


2.4721, 1.2126, 2.9096



# Previews

## White Background



This preview shows how the XYZ color 65.7860, 76.0221, 101.6489 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

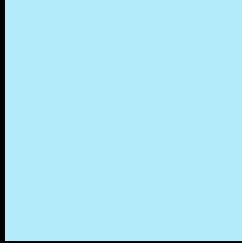
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 65.7860, 76.0221, 101.6489 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

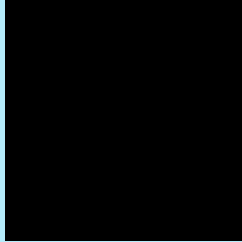
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 65.7860, 76.0221, 101.6489

## Background



This preview shows how black text looks on a background with the XYZ color 65.7860, 76.0221, 101.6489.



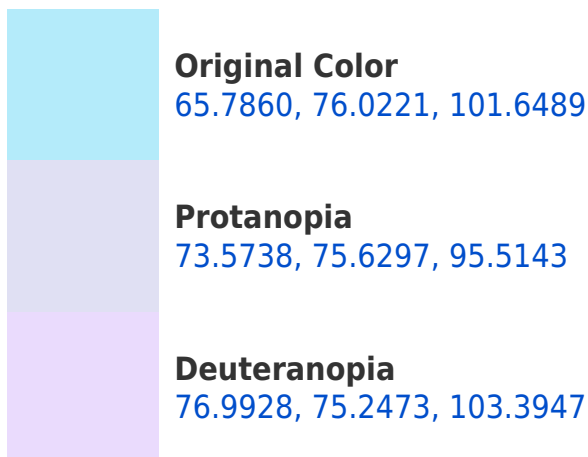
This preview shows how white text looks on a background with the XYZ color 65.7860, 76.0221,



# 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

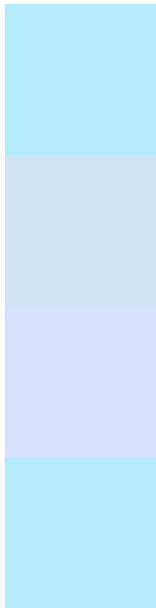




## Tritanopia

66.2085, 75.7612, 104.0623

# Trichromacy



## Original Color

65.7860, 76.0221, 101.6489

## Protanomaly

70.3904, 75.5505, 98.0615

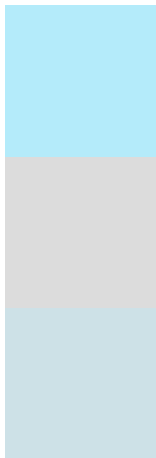
## Deuteranomaly

72.2275, 75.1748, 102.7989

## Tritanomaly

66.0496, 75.6977, 103.2254

# Monochromacy



## Original Color

65.7860, 76.0221, 101.6489

## Achromatopsia

68.0267, 71.5694, 77.9390

## Achromatomaly

66.5259, 72.5991, 86.1080

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 65.7860, 76.0221, 101.6489 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(180, 235, 250)` looks like.

```
.text, #text, p{  
    color:rgb(180, 235, 250)  
}
```

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(180, 235, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 235, 250) }
```

## Border

The CSS property to change the border of an element to XYZ 65.7860, 76.0221, 101.6489 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(180, 235, 250) }
```



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

```
.border{ border-color:rgb(180, 235, 250) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 235, 250)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 235, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 235, 250);  
box-shadow:4px 4px 4px 4px rgb(180, 235,  
250) }
```

# Background

The CSS property to change the background color of an element to XYZ 65.7860, 76.0221, 101.6489 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 235, 250) }
```

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

```
.background{ background-color: rgb(180,  
235, 250) }
```

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