

# Converting Colors

XYZ(66.9760, 81.0651,  
102.8105)

Have a look what the booklet for  
XYZ(66.9760, 81.0651, 102.8105)  
contains.

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# **Color**

**XYZ(66.9210, 80.9776,  
102.5456)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | ACF5FA                       |
| RGB         | 172, 245, 250                |
| RGB Percent | 67%, 96%, 98%                |
| CMY         | 0.3255, 0.0392, 0.0196       |
| CMYK        | 0.31, 0.02, 0.00, 0.02       |
| HSL         | 184°, 89%, 83%               |
| HSV         | 184°, 31%, 98%               |
| XYZ         | 66.9210, 80.9776, 102.5456   |
| YIQ         | 223.7430, -45.1130, -13.9210 |

# Conversions

## Conversions Part 2

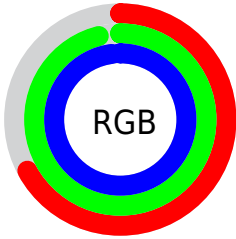
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| <b>RYB</b>                          | 172, 210, 250                  |
| Decimal                             | 11335162                       |
| CIELab                              | 92.12, -21.23, -9.63           |
| CIELCh                              | 92, 23.309, 204.390            |
| Yxy                                 | 80.9776, 0.2672,<br>0.3233     |
| Android<br>(android.graphics.Color) | 4289525242<br>(0xFFACF5FA)     |
| YUV                                 | 223.7430, 12.9447,<br>-45.3786 |
| Hunter-Lab                          | 89.9876, -24.7332,<br>-4.5728  |

# Details

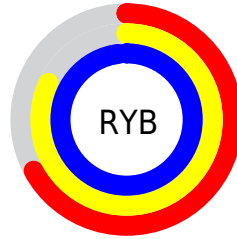
The XYZ color **66.9210, 80.9776, 102.5456** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **62.5940, 54.7476, 46.2998**, and the grayscale version is **70.6037, 74.2806, 80.8915**.

A 20% lighter version of the original color is **86.1231, 95.3980, 108.4822**, and **35.1377, 44.0032, 57.6805** is the 20% darker color. If you saturate the color by 10%, you get **61.4601, 77.4481, 102.1535**, and if you desaturate by 10%, it is **73.4230, 85.0540, 102.9911**.

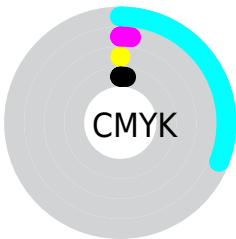
# Distribution



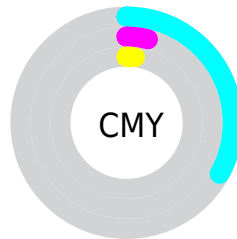
- Red (67%)
- Green (96%)
- Blue (98%)



- Red (67%)
- Yellow (82%)
- Blue (98%)



- Cyan (31%)
- Magenta (2%)
- Yellow (0%)
- Black (2%)



- Cyan (33%)
- Magenta (4%)
- Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.9210, 80.9776, 102.5456 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 66.9210, 80.9776, 102.5456 by changing the saturation by 10% instead.



66.9210, 80.9776,  
102.5456

66.9210, 80.9776,  
102.5456

439.1004,  
498.2213, 589.6399

49.2909, 60.5232,  
77.7995

113.8576,  
134.7393, 166.7333

35.0658, 43.8404,  
57.3938

143.8949,  
168.8154, 207.0120

23.8803, 30.5451,  
40.9100

178.7985,  
208.2008, 253.3053

15.3691, 20.2527,  
27.9296

218.9339,  
253.2799, 306.0318

9.1668, 12.5789,  
18.0340

264.6665,  
304.4371, 365.6099

4.9081, 7.1392,  
10.8047

316.3615,

2.2277, 3.5493,

362.0568, 432.4583

5.8232

374.3844,  
426.5234, 506.9954

0.7573, 1.4248,  
2.6708

0.0000, 0.2349,  
0.9287

66.9210, 80.9776,  
102.5456

66.9210, 80.9776,  
102.5456

61.4601, 77.4481,  
102.1535

73.4230, 85.0540,  
102.9911

56.9750, 74.4260,  
101.8066

81.0123, 89.6952,  
103.4869

53.4045, 71.8814,  
101.5036

89.7413, 94.9301,  
104.0373

50.6771, 69.7777,  
101.2413

93.1214, 97.4139,  
104.3386

■ 48.7110, 68.0727,  
101.0158

■ 93.6250, 98.4210,  
104.5064

■ 47.4079, 66.7155,  
100.8226

■ 94.1328, 99.4367,  
104.6757

■ 46.6740, 65.7391,  
100.6728

■ 94.2556, 99.6822,  
104.7166

# Harmonies

## Analogous

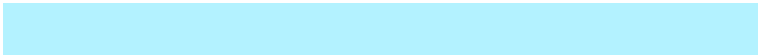
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



66.0364, 80.9776, 84.9771



66.9210, 80.9776, 102.5456



70.4366, 80.9776, 117.8852

# Triad

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



66.9210, 80.9776, 102.5456



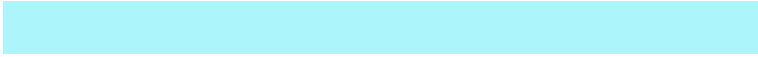
86.7424, 80.9776, 108.8642



78.1012, 80.9776, 59.1819

# Complementary

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



66.9210, 80.9776, 102.5456



62.5940, 54.7476, 46.2998

# 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.



83.8886, 80.9776, 63.9230



66.9210, 80.9776, 102.5456



89.0412, 80.9776, 91.4436

# Square

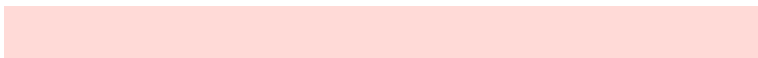
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



66.9210, 80.9776, 102.5456



81.8347, 80.9776, 121.8527



87.9707, 80.9776, 75.2064



72.2958, 80.9776, 61.3492

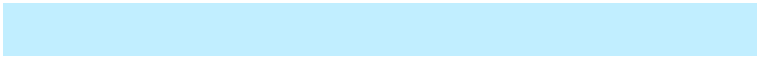


# Rectangle

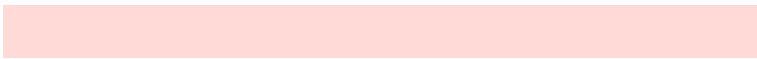
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



66.9210, 80.9776, 102.5456



73.9009, 80.9776, 124.0140



87.9707, 80.9776, 75.2064



80.1163, 80.9776, 59.9994

# Sweetspot

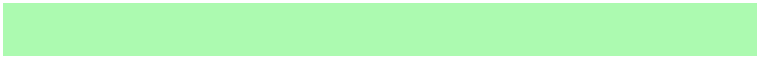
The Sweet Spot groups the original color and five complimentary colors.



66.9234, 80.9808, 102.5475



86.6377, 94.9696, 108.3724



59.0271, 80.2741, 53.4077



18.2728, 20.1637, 23.1788



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

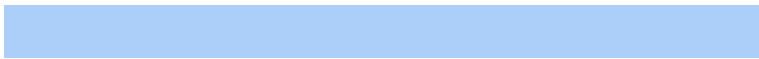
The Same Dimension uses a secret algorithm to generate beautiful new colors.



66.9234, 80.9808, 102.5475



66.5393, 82.4844, 107.0218



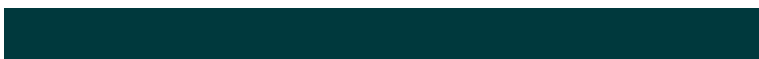
56.6074, 60.3487, 99.1088



17.6650, 19.4069, 22.2001



24.7981, 34.9517, 53.4129



2.3247, 3.2930, 4.9563



# Inverse Universe

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



70.6603, 56.4236, 93.5564



71.0157, 53.4643, 96.1626



71.1473, 71.8542, 49.1509



17.9422, 17.5042, 21.5514



28.8089, 13.9393, 42.5638

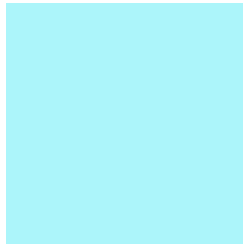


2.6823, 1.2967, 4.0164



# Previews

## White Background



This preview shows how the XYZ color 66.9210, 80.9776, 102.5456 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

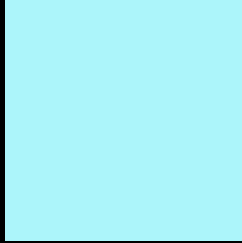
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.9210, 80.9776, 102.5456 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 66.9210, 80.9776, 102.5456

## Background



This preview shows how black text looks on a background with the XYZ color 66.9210, 80.9776, 102.5456.



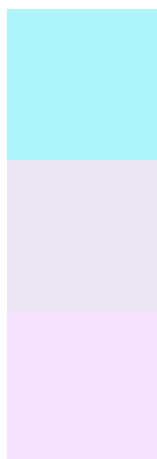
This preview shows how white text looks on a background with the XYZ color 66.9210, 80.9776,



# 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

66.9210, 80.9776, 102.5456

### Protanopia

77.7783, 80.2681, 94.6130

### Deuteranopia

82.1228, 80.2393, 104.9253



## Tritanopia

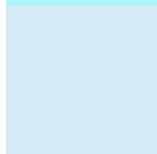
70.6959, 80.6165, 106.4422

# Trichromacy



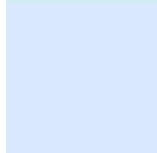
## Original Color

66.9210, 80.9776, 102.5456



## Protanomaly

72.9014, 79.7972, 97.1480



## Deuteranomaly

75.4997, 79.7105, 104.3349



## Tritanomaly

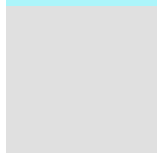
69.2489, 80.7865, 104.8720

# Monochromacy



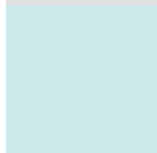
## Original Color

66.9210, 80.9776, 102.5456



## Achromatopsia

70.8507, 74.5404, 81.1745



## Achromatomaly

68.7414, 76.5756, 88.2483

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.9210, 80.9776, 102.5456 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(172, 245, 250)` looks like.

```
.text, #text, p{  
    color:rgb(172, 245, 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(172, 245, 250) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 245, 250) }
```

## Border

The CSS property to change the border of an element to XYZ 66.9210, 80.9776, 102.5456 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(172, 245, 250) }
```



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

```
.border{ border-color:rgb(172, 245, 250) }
```

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

Here you see how a box with a 4 pixel rgb(172, 245, 250) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 245, 250); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 245, 250);  
box-shadow:4px 4px 4px 4px rgb(172, 245,  
250) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.9210, 80.9776, 102.5456 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 245, 250) }
```

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

```
.background{ background-color: rgb(172,  
245, 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](#).

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