

# Converting Colors

XYZ(104.1407, 154.4986,  
102.8610)

Have a look what the booklet for  
XYZ(104.1407, 154.4986, 102.8610)  
contains.

<b>XYZ(70.7630, 87.8324, 91.8210)</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(70.7630, 87.8324,  
91.8210)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B9FFEB
RGB	185, 255, 235
RGB Percent	73%, 100%, 92%
CMY	0.2745, 0.0000, 0.0784
CMYK	0.27, 0.00, 0.08, 0.00
HSL	163°, 100%, 86%
HSV	163°, 27%, 100%
XYZ	70.7630, 87.8324, 91.8210
YIQ	231.7900, -35.3000, -21.0600

# Conversions

## Conversions Part 2

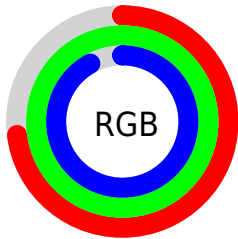
<b>Format</b>	<b>Color</b>
<b>RYB</b>	185, 226, 255
Decimal	12189675
CIELab	95.09, -25.67, 2.58
CIELCh	95, 25.799, 174.259
Yxy	87.8324, 0.2826, 0.3507
Android (android.graphics.Color)	4290379755 (0xFFB9FFEB)
YUV	231.7900, 1.5825, -41.0348
Hunter-Lab	93.7189, -29.2307, 7.5140

# Details

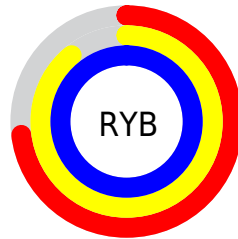
The XYZ color **70.7630, 87.8324, 91.8210** is a light color, and the websafe version is hex **CCFFFF**. A complement of this color would be **69.6091, 60.3669, 65.7414**, and the grayscale version is **76.5520, 80.5387, 87.7067**.

A 20% lighter version of the original color is **90.4279, 97.6172, 108.6837**, and **37.5367, 48.3887, 50.0094** is the 20% darker color. If you saturate the color by 10%, you get **64.1223, 84.5281, 86.1286**, and if you desaturate by 10%, it is **78.5519, 91.7236, 97.7950**.

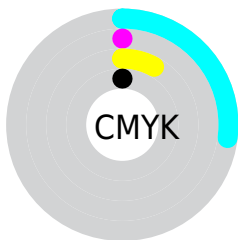
# Distribution



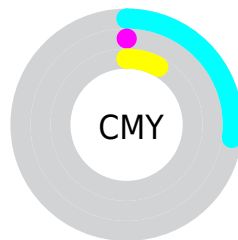
- Red (73%)
- Green (100%)
- Blue (92%)



- Red (73%)
- Yellow (89%)
- Blue (100%)



- Cyan (27%)
- Magenta (0%)
- Yellow (8%)
- Black (0%)




- Cyan (27%)
- Magenta (0%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 70.7630, 87.8324, 91.8210 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 70.7630, 87.8324, 91.8210 by changing the saturation by 10% instead.





 70.7630, 87.8324,  
91.8210

 70.7630, 87.8324,  
91.8210


452.4493,  
520.9542, 554.6591

 52.4306, 66.1843,  
68.9098

 119.3166,  
144.3238, 151.8228

 37.5741, 48.4220,  
50.1669


150.2685,  
179.9359, 189.7505

 25.8280, 34.1612,  
35.1739


186.1576,  
220.9714, 233.5207

 16.8270, 23.0175,  
23.5123


227.3493,  
267.8147, 283.5520

 10.2058, 14.6064,  
14.7634

274.2090,  
320.8503, 340.2630

 5.5989, 8.5436,  
8.5087

327.1020,

 2.6411, 4.4447,

380.4624, 404.0721

4.3297

386.3936,  
447.0356, 475.3980

■ 0.9669, 1.9253,  
1.8079

■ 0.0000, 0.5635,  
0.4332

■ 70.7630, 87.8324,  
91.8210

■ 70.7630, 87.8324,  
91.8210

■ 64.1223, 84.5281,  
86.1286

■ 78.5519, 91.7236,  
97.7950

■ 58.5674, 81.7788,  
80.7080

■ 87.5414, 96.2287,  
104.0515

■ 54.0345, 79.5513,  
75.5549

95.0500, 100.0000,  
108.9000

■ 50.4512, 77.8086,  
70.6632

■ 47.7357, 76.5085,  
66.0263

■ 45.7917, 75.6015,  
61.6367

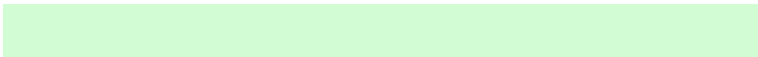
■ 44.4936, 75.0228,  
57.4857

■ 44.2187, 74.9035,  
56.4628

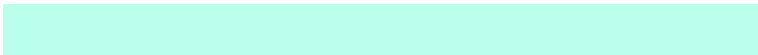
# Harmonies

## Analogous

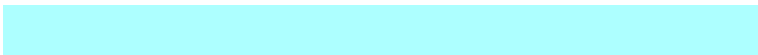
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



73.0017, 87.8324, 74.7910



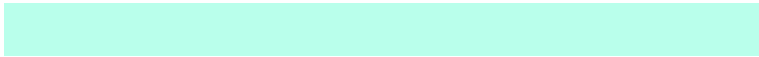
70.7630, 87.8324, 91.8210



71.7744, 87.8324, 112.4074

# Triad

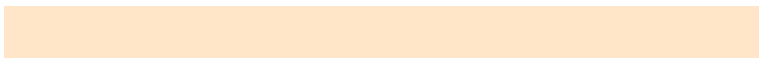
The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



70.7630, 87.8324, 91.8210



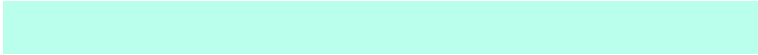
89.1498, 87.8324, 135.3703



91.6145, 87.8324, 67.5721

# Complementary

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



70.7630, 87.8324, 91.8210



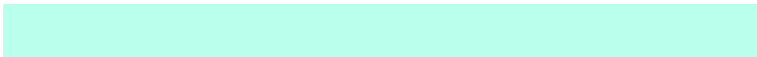
69.6091, 60.3669, 65.7414

# 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.



96.3983, 87.8324, 80.6192



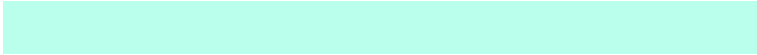
70.7630, 87.8324, 91.8210



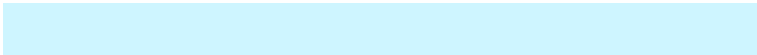
94.9204, 87.8324, 120.0301

# Square

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



70.7630, 87.8324, 91.8210



82.1396, 87.8324, 139.4688



97.6406, 87.8324, 99.5523

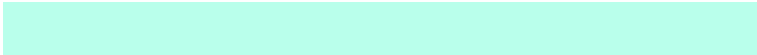


84.8390, 87.8324, 62.1067



# Rectangle

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



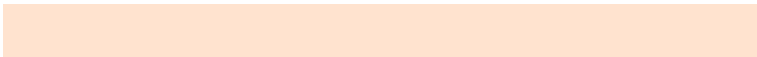
70.7630, 87.8324, 91.8210



74.1862, 87.8324, 125.2198



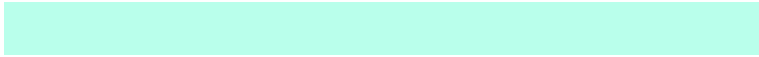
97.6406, 87.8324, 99.5523



93.5237, 87.8324, 71.1200

# Sweetspot

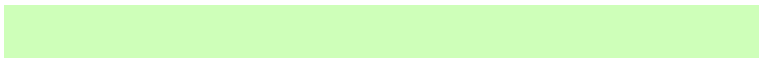
The Sweet Spot groups the original color and five complimentary colors.



70.7639, 87.8329, 91.8225



87.0147, 95.9644, 103.6999



69.9714, 88.1450, 59.2263



18.3206, 20.3878, 21.9911



0.0000, 0.0000, 0.0000

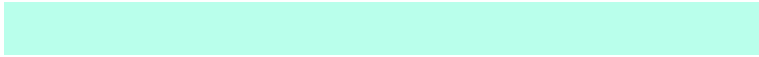


20.3446, 21.4041, 23.3091

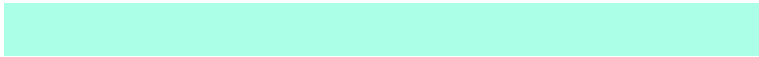


# Same Dimension

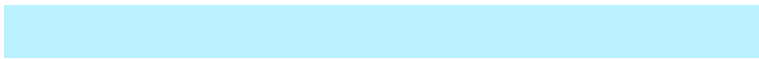
The Same Dimension uses a secret algorithm to generate beautiful new colors.



70.7639, 87.8329, 91.8225



66.9399, 85.9283, 88.6282



69.5137, 80.4456, 106.4715



18.3206, 20.3878, 21.9911



23.1728, 39.1657, 29.8589



2.3034, 3.8323, 3.1554



# Inverse Universe

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



69.6091, 60.3669, 65.7414



65.6127, 54.2644, 58.5814



70.4212, 65.6108, 54.8531



18.2227, 18.0724, 19.7900



22.2298, 11.3812, 4.5945

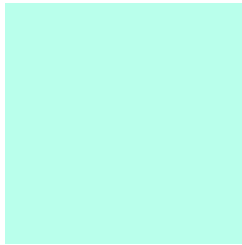


2.2091, 1.1260, 0.6824



# Previews

## White Background



This preview shows how the XYZ color 70.7630, 87.8324, 91.8210 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

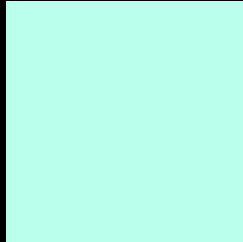
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 70.7630, 87.8324, 91.8210 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

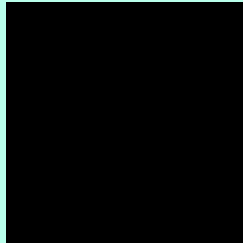
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 70.7630, 87.8324, 91.8210**

## **Background**



This preview shows how black text looks on a background with the XYZ color 70.7630, 87.8324, 91.8210.



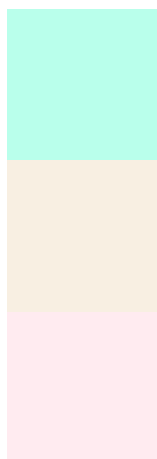
This preview shows how white text looks on a background with the XYZ color 70.7630, 87.8324,

91.8210.

# 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

70.7630, 87.8324, 91.8210

### Protanopia

83.3054, 87.1804, 84.3884

### Deuteranopia

86.6765, 86.9679, 94.6562



## Tritanopia

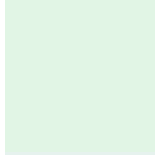
79.9158, 87.5849, 107.3013

# Trichromacy



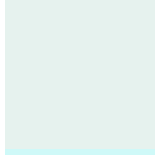
## Original Color

70.7630, 87.8324, 91.8210



## Protanomaly

77.8466, 86.9695, 86.8126



## Deuteranomaly

79.8179, 86.5003, 93.3783



## Tritanomaly

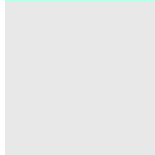
76.5511, 87.7941, 101.7182

# Monochromacy



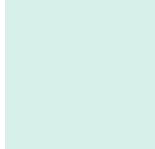
## Original Color

70.7630, 87.8324, 91.8210



## Achromatopsia

76.7008, 80.6952, 87.8771



## Achromatomaly

73.8924, 82.6504, 89.1494

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 70.7630, 87.8324, 91.8210 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(185, 255, 235)` looks like.

```
.text, #text, p{  
    color:rgb(185, 255, 235)  
}
```

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(185, 255, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(185, 255, 235) }
```

## Border

The CSS property to change the border of an element to XYZ 70.7630, 87.8324, 91.8210 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".

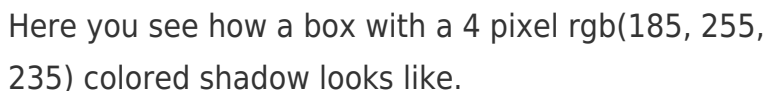
```
.border, #border, table{ border:4px solid rgb(185, 255, 235) }
```



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

```
.border{ border-color:rgb(185, 255, 235) }
```

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



Here you see how a box with a 4 pixel `rgb(185, 255, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(185, 255, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(185, 255, 235);  
box-shadow:4px 4px 4px 4px rgb(185, 255,  
235) }
```

# Background

The CSS property to change the background color of an element to XYZ 70.7630, 87.8324, 91.8210 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(185, 255, 235) }
```

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

```
.background{ background-color: rgb(185,  
255, 235) }
```

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