

# Converting Colors

XYZ(51.7002, 68.7941, 78.4015)

Have a look what the booklet for  
XYZ(51.7002, 68.7941, 78.4015)  
contains.

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# Color

**XYZ(51.7012, 68.8382,  
78.2723)**

# Conversions

## Conversions Part 1

Format	Color
Hex	83EADC
RGB	131, 234, 220
RGB Percent	51%, 92%, 86%
CMY	0.4863, 0.0823, 0.1372
CMYK	0.44, 0.00, 0.06, 0.08
HSL	172°, 71%, 72%
HSV	172°, 44%, 92%
XYZ	51.7012, 68.8382, 78.2723
YIQ	201.6070, -56.8940, -26.1900

# Conversions

## Conversions Part 2

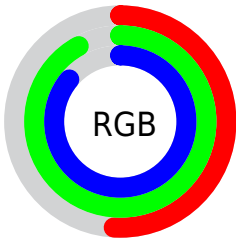
Format	Color
<a href="#">RYB</a>	<a href="#">131, 186, 234</a>
Decimal	<a href="#">8645340</a>
CIELab	<a href="#">86.42, -33.33, -2.57</a>
CIELCh	<a href="#">86, 33.427, 184.408</a>
Yxy	<a href="#">68.8382, 0.2601, 0.3462</a>
Android (android.graphics.Color)	<a href="#">4286835420 (0xFF83EADC)</a>
YUV	<a href="#">201.6070, 9.0677, -61.9223</a>
Hunter-Lab	<a href="#">82.9688, -33.9648, 2.1443</a>

# Details

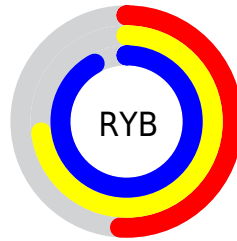
The XYZ color **51.7012, 68.8382, 78.2723** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **47.1612, 35.7714, 31.2097**, and the grayscale version is **55.8667, 58.7761, 64.0072**.

A 20% lighter version of the original color is **74.7963, 89.5588, 107.9521**, and **25.3844, 35.9351, 41.1956** is the 20% darker color. If you saturate the color by 10%, you get **48.0613, 67.0117, 75.9248**, and if you desaturate by 10%, it is **56.1715, 71.0953, 80.7036**.

# Distribution



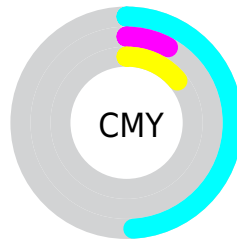
- Red (51%)
- Green (92%)
- Blue (86%)



- Red (51%)
- Yellow (73%)
- Blue (92%)



- Cyan (44%)
- Magenta (0%)
- Yellow (6%)
- Black (8%)




- Cyan (49%)
- Magenta (8%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.7012, 68.8382, 78.2723 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 51.7012, 68.8382, 78.2723 by changing the saturation by 10% instead.





 51.7012, 68.8382,  
78.2723


 51.7012, 68.8382,  
78.2723


383.6249,  
456.4601, 508.6435

 36.9903, 50.5800,  
57.7799


 91.8673, 117.5504,  
132.7233

 25.3736, 35.8744,  
41.2182

 118.0531,  
148.7732, 167.5189

 16.4858, 24.3372,  
28.1686


 148.7946,  
185.0863, 207.9194

 9.9616, 15.5840,  
18.2127

184.4572,  
226.8741, 254.3433

 5.4356, 9.2302,  
10.9318

225.4061,  
274.5210, 307.2091

 2.5424, 4.8917,  
5.9074

272.0068,

 0.9167, 2.1838,

328.4113, 366.9354

2.7210

324.6247,  
388.9296, 433.9407

■ 0.0000, 0.7112,  
0.9540

■ 0.0000, 0.0000,  
0.0000

■ 51.7012, 68.8382,  
78.2723

■ 51.7012, 68.8382,  
78.2723

■ 48.0613, 67.0117,  
75.9248

■ 56.1715, 71.0953,  
80.7036

■ 45.1899, 65.5787,  
73.6533

■ 61.5169, 73.8008,  
83.2164


■ 43.0264, 64.5098,  
71.4564


■ 67.7858, 76.9815,  
85.8147


■ 41.4978, 63.7672,  
69.3304


■ 75.0215, 80.6597,  
88.5008


 40.5157, 63.3055,  
67.2708


 83.2645, 84.8563,  
91.2768

 40.1074, 63.1213,  
66.0663

 86.2570, 86.3451,  
93.8501

 86.7315, 86.5349,  
96.3487

 87.2143, 86.7280,  
98.8911

 87.7055, 86.9245,  
101.4775

# Harmonies

## Analogous

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



52.9193, 68.8382, 58.0298



51.7012, 68.8382, 78.2723



53.9171, 68.8382, 101.6693

# Triad

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



51.7012, 68.8382, 78.2723



74.1913, 68.8382, 115.8389



72.0606, 68.8382, 42.7460

# Complementary

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



51.7012, 68.8382, 78.2723



47.1612, 35.7714, 31.2097

# 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.



78.4721, 68.8382, 53.3822



51.7012, 68.8382, 78.2723



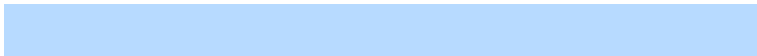
79.7686, 68.8382, 94.8830

# Square

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



51.7012, 68.8382, 78.2723



66.5776, 68.8382, 125.9035



81.3933, 68.8382, 71.7291



64.2930, 68.8382, 40.0210

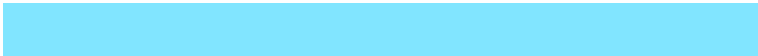


# Rectangle

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



51.7012, 68.8382, 78.2723



57.1545, 68.8382, 115.1659



81.3933, 68.8382, 71.7291



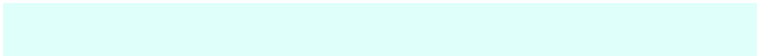
74.4652, 68.8382, 45.3956

# Sweetspot

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



51.7032, 68.8409, 78.2739



83.1711, 93.9590, 104.6010



45.4560, 66.6394, 31.9412



17.4138, 19.9139, 22.2366



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.



51.7032, 68.8409, 78.2739



58.7166, 81.5950, 92.4901



44.3962, 51.1336, 85.3747



15.4245, 17.0846, 18.9180



22.5719, 35.4832, 37.3062



1.7968, 2.7960, 3.0578



# Inverse Universe

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



47.1612, 35.7714, 31.2097



52.5421, 36.4983, 28.4051



51.8587, 46.7892, 27.7723



15.1488, 15.0874, 16.0691



19.2391, 9.8983, 1.7945

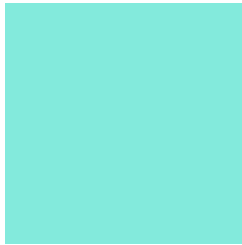


1.5372, 0.7878, 0.2801



# Previews

## White Background



This preview shows how the XYZ color 51.7012, 68.8382, 78.2723 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

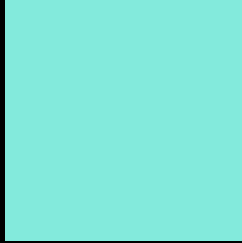
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.7012, 68.8382, 78.2723 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

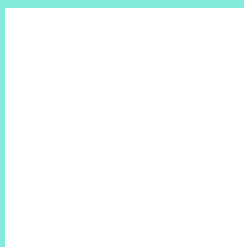
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 51.7012, 68.8382, 78.2723**

## **Background**



This preview shows how black text looks on a background with the XYZ color 51.7012, 68.8382, 78.2723.



This preview shows how white text looks on a background with the XYZ color 51.7012, 68.8382,



# 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

51.7012, 68.8382, 78.2723

### Protanopia

65.0704, 67.9122, 70.0004

### Deuteranopia

69.3461, 68.0261, 80.7096



## Tritanopia

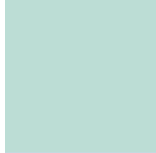
55.8876, 68.8599, 99.1526

# Trichromacy



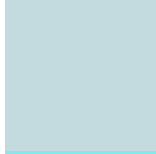
## Original Color

51.7012, 68.8382, 78.2723



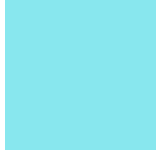
## Protanomaly

58.6057, 67.2084, 72.8345



## Deuteranomaly

60.8964, 67.0726, 79.5488



## Tritanomaly

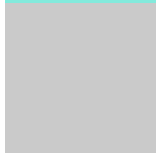
54.1619, 68.5591, 91.2675

# Monochromacy



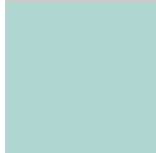
## Original Color

51.7012, 68.8382, 78.2723



## Achromatopsia

56.1383, 59.0619, 64.3184



## Achromatomaly

53.4597, 61.9267, 69.4570

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.7012, 68.8382, 78.2723 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(131, 234, 220)` looks like.

```
.text, #text, p{  
    color:rgb(131, 234, 220)  
}
```

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(131, 234, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 234, 220) }
```

## Border

The CSS property to change the border of an element to XYZ 51.7012, 68.8382, 78.2723 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(131, 234, 220) }
```



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

```
.border{ border-color:rgb(131, 234, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 234, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 234, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 234, 220);  
box-shadow:4px 4px 4px 4px rgb(131, 234,  
220) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.7012, 68.8382, 78.2723 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 234, 220) }
```

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

```
.background{ background-color: rgb(131,  
234, 220) }
```

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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