

# Converting Colors

XYZ(50.7333, 68.4651, 79.1677)

Have a look what the booklet for  
XYZ(50.7333, 68.4651, 79.1677)  
contains.

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# Color

**XYZ(50.6423, 68.2770,  
78.9163)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7BEADD
RGB	123, 234, 221
RGB Percent	48%, 92%, 87%
CMY	0.5176, 0.0823, 0.1333
CMYK	0.47, 0.00, 0.06, 0.08
HSL	173°, 73%, 70%
HSV	173°, 47%, 92%
XYZ	50.6423, 68.2770, 78.9163
YIQ	199.3290, -61.9830, -27.5750

# Conversions

## Conversions Part 2

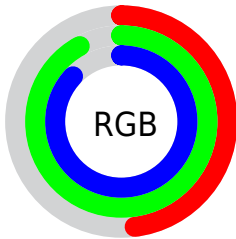
Format	Color
<a href="#">RYB</a>	<a href="#">123, 182, 234</a>
Decimal	<a href="#">8121053</a>
CIELab	<a href="#">86.14, -34.93, -3.54</a>
CIELCh	<a href="#">86, 35.110, 185.787</a>
Yxy	<a href="#">68.2770, 0.2560, 0.3451</a>
Android (android.graphics.Color)	<a href="#">4286311133 (0xFF7BEADD)</a>
YUV	<a href="#">199.3290, 10.6838, -66.9405</a>
Hunter-Lab	<a href="#">82.6299, -35.2031, 1.2156</a>

# Details

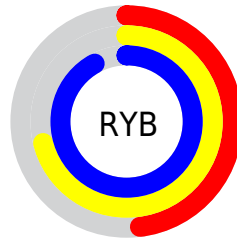
The XYZ color **50.6423, 68.2770, 78.9163** is a light color, and the websafe version is hex **99FFFF**. A complement of this color would be **45.4608, 33.4378, 27.3530**, and the grayscale version is **54.4530, 57.2888, 62.3875**.

A 20% lighter version of the original color is **73.1014, 88.6851, 107.8728**, and **24.7899, 35.6181, 41.6448** is the 20% darker color. If you saturate the color by 10%, you get **47.3248, 66.6103, 76.8715**, and if you desaturate by 10%, it is **54.7697, 70.3639, 81.0332**.

# Distribution



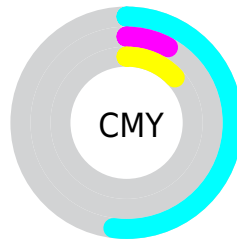
- Red (48%)
- Green (92%)
- Blue (87%)



- Red (48%)
- Yellow (71%)
- Blue (92%)



- Cyan (47%)
- Magenta (0%)
- Yellow (6%)
- Black (8%)




- Cyan (52%)
- Magenta (8%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 50.6423, 68.2770, 78.9163 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 50.6423, 68.2770, 78.9163 by changing the saturation by 10% instead.





 50.6423, 68.2770,  
78.9163


 50.6423, 68.2770,  
78.9163


379.5830,  
454.4768, 510.8833

 36.1439, 50.1231,  
58.3061


 90.3120, 116.7483,  
133.6386

 24.7160, 35.5112,  
41.6384


 116.2139,  
147.8346, 168.5878

 15.9932, 24.0570,  
28.4948


 146.6478,  
184.0004, 209.1537

 9.6101, 15.3759,  
18.4567

181.9789,  
225.6301, 255.7549

 5.2015, 9.0836,  
11.1056

222.5726,  
273.1083, 308.8099

 2.4019, 4.7958,  
6.0228

268.7943,

 0.8461, 2.1279,

326.8192, 368.7373

2.7899

321.0093,  
387.1472, 435.9556

■ 0.0000, 0.6803,  
0.9884

■ 0.0000, 0.0000,  
0.0000

■ 50.6423, 68.2770,  
78.9163

■ 50.6423, 68.2770,  
78.9163

■ 47.3248, 66.6103,  
76.8715

■ 54.7697, 70.3639,  
81.0332

■ 44.7532, 65.3258,  
74.8910


■ 59.7533, 72.8898,  
83.2199


■ 42.8639, 64.3923,  
72.9733


■ 65.6429, 75.8820,  
85.4804


■ 41.5796, 63.7700,  
71.1147


■ 72.4828, 79.3635,  
87.8170


 40.7978, 63.4061,  
69.3100


 80.3143, 83.3554,  
90.2317

 40.6368, 63.3330,  
68.8539

 86.0156, 86.2485,  
92.5785

 86.4202, 86.4104,  
94.7095

 86.8310, 86.5747,  
96.8728

 87.2481, 86.7415,  
99.0687

# Harmonies

## Analogous

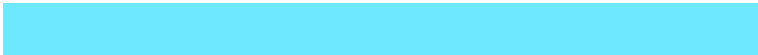
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



51.7407, 68.2770, 57.5571



50.6423, 68.2770, 78.9163



53.0985, 68.2770, 103.4920

# Triad

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



50.6423, 68.2770, 78.9163



74.4040, 68.2770, 116.5573



71.4730, 68.2770, 40.7170

# Complementary

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



50.6423, 68.2770, 78.9163



45.4608, 33.4378, 27.3530

# 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.



78.3213, 68.2770, 51.2546



50.6423, 68.2770, 78.9163



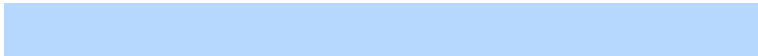
80.1094, 68.2770, 94.1089

# Square

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



50.6423, 68.2770, 78.9163



66.4734, 68.2770, 127.9323



81.5991, 68.2770, 69.9481



63.3423, 68.2770, 38.2998



# Rectangle

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



50.6423, 68.2770, 78.9163



56.5516, 68.2770, 117.5058



81.5991, 68.2770, 69.9481



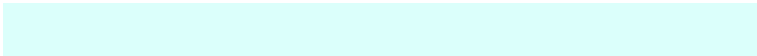
74.0217, 68.2770, 43.3019

# Sweetspot

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



50.6443, 68.2797, 78.9179



82.4477, 93.5802, 104.8339



43.4482, 65.6646, 29.1248



17.2764, 19.8414, 22.3082



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.



50.6443, 68.2797, 78.9179



57.5758, 80.9841, 93.4659



42.1581, 48.4265, 84.9701



15.4373, 17.0897, 18.9854



22.8654, 35.6006, 38.8519



1.8170, 2.8041, 3.1642



# Inverse Universe

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



45.4608, 33.4378, 27.3530



50.5879, 33.8603, 23.8375



50.7309, 45.3684, 24.8234



15.1372, 15.0827, 16.0079



19.2051, 9.8847, 1.6153

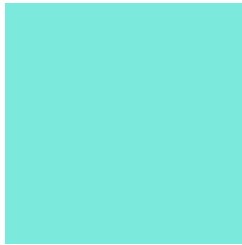


1.5316, 0.7856, 0.2510



# Previews

## White Background



This preview shows how the XYZ color 50.6423, 68.2770, 78.9163 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

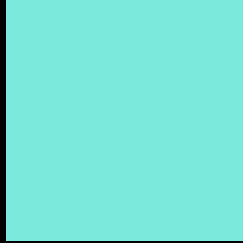
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 50.6423, 68.2770, 78.9163 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 50.6423, 68.2770, 78.9163**

## **Background**



This preview shows how black text looks on a background with the XYZ color 50.6423, 68.2770, 78.9163.



This preview shows how white text looks on a background with the XYZ color 50.6423, 68.2770,



# 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

50.6423, 68.2770, 78.9163

### Protanopia

64.5163, 67.2520, 69.9022

### Deuteranopia

68.7341, 67.3158, 82.0436



## Tritanopia

54.6002, 68.1962, 99.0924

# Trichromacy



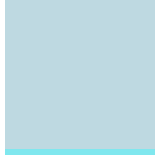
## Original Color

50.6423, 68.2770, 78.9163



## Protanomaly

57.6339, 66.7073, 72.7890



## Deuteranomaly

59.6387, 66.0091, 80.8319



## Tritanomaly

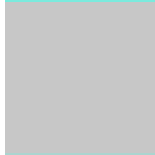
52.9106, 67.9141, 91.2090

# Monochromacy



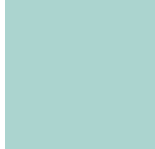
## Original Color

50.6423, 68.2770, 78.9163



## Achromatopsia

54.2854, 57.1125, 62.1955



## Achromatomaly

51.6006, 60.2499, 67.9412

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 50.6423, 68.2770, 78.9163 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(123, 234, 221)` looks like.

```
.text, #text, p{  
    color:rgb(123, 234, 221)  
}
```

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(123, 234, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 234, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 50.6423, 68.2770, 78.9163 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(123, 234, 221) }
```



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

```
.border{ border-color:rgb(123, 234, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 234, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 234, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 234, 221);  
box-shadow:4px 4px 4px 4px rgb(123, 234,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 50.6423, 68.2770, 78.9163 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 234, 221) }
```

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

```
.background{ background-color: rgb(123,  
234, 221) }
```

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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