

# Converting Colors

XYZ(55.4523, 80.0299, 87.0200)

Have a look what the booklet for  
XYZ(55.4523, 80.0299, 87.0200)  
contains.

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# Color

**XYZ(55.5224, 80.0580,  
87.3893)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66FFE6
RGB	102, 255, 230
RGB Percent	40%, 100%, 90%
CMY	0.6000, 0.0000, 0.0980
CMYK	0.60, 0.00, 0.10, 0.00
HSL	170°, 100%, 70%
HSV	170°, 60%, 100%
XYZ	55.5224, 80.0580, 87.3893
YIQ	206.4030, -83.1630, -40.2110

# Conversions

## Conversions Part 2

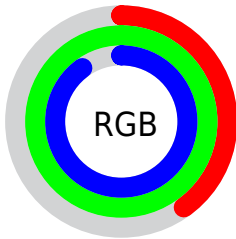
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">102, 185, 255</a>
Decimal	<a href="#">6750182</a>
CIELab	<a href="#">91.71, -46.30, -0.16</a>
CIELCh	<a href="#">92, 46.300, 180.193</a>
Yxy	<a href="#">80.0580, 0.2490, 0.3591</a>
Android (android.graphics.Color)	<a href="#">4284940262</a> ( <a href="#">0xFF66FFE6</a> )
YUV	<a href="#">206.4030, 11.6333, -91.5614</a>
Hunter-Lab	<a href="#">89.4751, -45.8161, 4.7248</a>

# Details

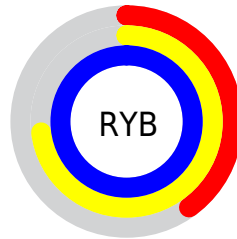
The XYZ color **55.5224, 80.0580, 87.3893** is a light color, and the websafe version is hex **33FFFF**. A complement of this color would be **49.8230, 32.2963, 23.6879**, and the grayscale version is **58.8910, 61.9579, 67.4721**.

A 20% lighter version of the original color is **69.5359, 86.8470, 107.7060**, and **27.7041, 43.0277, 47.4024** is the 20% darker color. If you saturate the color by 10%, you get **52.4857, 78.5593, 84.2303**, and if you desaturate by 10%, it is **59.4634, 82.0212, 90.6664**.

# Distribution



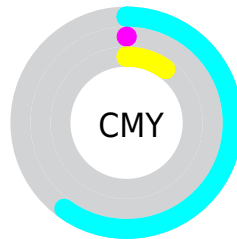
- Red (40%)
- Green (100%)
- Blue (90%)



- Red (40%)
- Yellow (73%)
- Blue (100%)



- Cyan (60%)
- Magenta (0%)
- Yellow (10%)
- Black (0%)




- Cyan (60%)
- Magenta (0%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.5224, 80.0580, 87.3893 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 55.5224, 80.0580, 87.3893 by changing the saturation by 10% instead.




 55.5224, 80.0580,  
87.3893

 55.5224, 80.0580,  
87.3893


397.9934,  
495.1283, 539.8506


 40.0556, 59.7661,  
65.2560

 97.4498, 133.4473,  
145.6103

 27.7663, 43.2301,  
47.2160


 124.6411,  
167.3134, 182.5350

 18.2891, 30.0657,  
32.8509


 156.4714,  
206.4731, 225.2273

 11.2587, 19.8885,  
21.7420

193.3058,  
251.3107, 274.1056

 6.3097, 12.3140,  
13.4710

235.5099,  
302.2106, 329.5886

 3.0767, 6.9579,  
7.6191

283.4490,

 1.1945, 3.4358,

359.5573, 392.0947

3.7680

337.4884,  
423.7350, 462.0426

■ 0.1020, 1.3633,  
1.4989

■ 0.0000, 0.1894,  
0.2171

■ 55.5224, 80.0580,  
87.3893

■ 55.5224, 80.0580,  
87.3893

■ 52.4857, 78.5593,  
84.2303

■ 59.4634, 82.0212,  
90.6664

■ 50.2660, 77.4801,  
81.1806

■ 64.3798, 84.4856,  
94.0613

■ 48.7633, 76.7691,  
78.2366

■ 70.3388, 87.4859,  
97.5790

■ 47.8130, 76.3412,  
75.3898

■ 77.4007, 91.0531,  
101.2228

■ 47.8128, 76.3411,  
75.3892

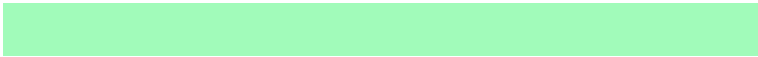
■ 85.6212, 95.2159,  
104.9958

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



57.9992, 80.0580, 58.6114



55.5224, 80.0580, 87.3893



58.0632, 80.0580, 124.2415

# Triad

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



55.5224, 80.0580, 87.3893



88.1255, 80.0580, 156.5384



87.9791, 80.0580, 41.9529

# Complementary

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



55.5224, 80.0580, 87.3893



49.8230, 32.2963, 23.6879

# 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.



97.5144, 80.0580, 58.3200



55.5224, 80.0580, 87.3893



97.6049, 80.0580, 123.7605

# Square

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



55.5224, 80.0580, 87.3893



76.1694, 80.0580, 169.9726



101.2036, 80.0580, 86.9502

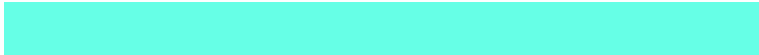


76.0161, 80.0580, 36.8758



# Rectangle

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



55.5224, 80.0580, 87.3893



62.4290, 80.0580, 147.4599



101.2036, 80.0580, 86.9502



91.6174, 80.0580, 46.0643

# Sweetspot

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



55.5233, 80.0584, 87.3907



78.9486, 91.8362, 101.9661



46.9863, 77.0303, 24.9638



16.4190, 19.4143, 21.5936



0.0000, 0.0000, 0.0000

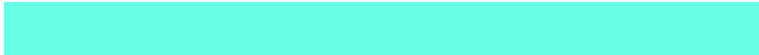


20.3446, 21.4041, 23.3091



# Same Dimension

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



55.5233, 80.0584, 87.3907



51.9787, 78.3111, 83.6109



45.1235, 53.2318, 102.5042



18.4199, 20.4275, 22.5140



25.0306, 39.9088, 39.6422



2.4696, 3.8988, 4.0309



# Inverse Universe

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



49.8230, 32.2963, 23.6879



45.8873, 26.7650, 15.1623



55.0304, 45.0032, 18.3579



18.1304, 18.0355, 19.3039



21.7994, 11.2091, 2.3282

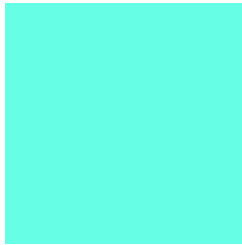


2.1552, 1.1045, 0.3988



# Previews

## White Background



This preview shows how the XYZ color 55.5224, 80.0580, 87.3893 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

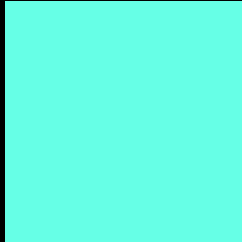
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.5224, 80.0580, 87.3893 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 55.5224, 80.0580, 87.3893**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.5224, 80.0580, 87.3893.



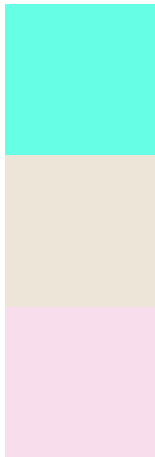
This preview shows how white text looks on a background with the XYZ color 55.5224, 80.0580,



# 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

55.5224, 80.0580, 87.3893

### Protanopia

75.2101, 78.9494, 75.5647

### Deuteranopia

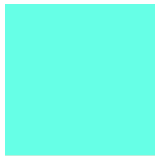
80.1187, 78.3134, 91.0141



## Tritanopia

66.5967, 79.3822, 106.4200

# Trichromacy



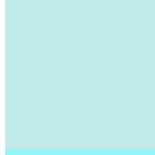
## Original Color

55.5224, 80.0580, 87.3893



## Protanomaly

64.2318, 77.0077, 79.1887



## Deuteranomaly

66.7798, 76.3883, 89.0666



## Tritanomaly

61.7494, 79.2863, 99.2380

# Monochromacy



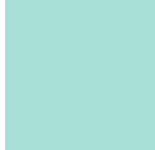
## Original Color

55.5224, 80.0580, 87.3893



## Achromatopsia

58.6655, 61.7207, 67.2138



## Achromatomaly

55.0698, 66.5424, 74.2315

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.5224, 80.0580, 87.3893 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(102, 255, 230)` looks like.

```
.text, #text, p{  
    color:rgb(102, 255, 230)  
}
```

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(102, 255, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 255, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 55.5224, 80.0580, 87.3893 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(102, 255, 230) }
```



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

```
.border{ border-color:rgb(102, 255, 230) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 255, 230)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 255, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 255, 230);  
box-shadow:4px 4px 4px 4px rgb(102, 255,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.5224, 80.0580, 87.3893 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 255, 230) }
```

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

```
.background{ background-color: rgb(102,  
255, 230) }
```

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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