

# Converting Colors

XYZ(63.7300, 100.0000,  
87.4803)

Have a look what the booklet for  
XYZ(63.7300, 100.0000, 87.4803)  
contains.

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# Color

**XYZ(53.0969, 78.8875,  
83.6625)**

# Conversions

## Conversions Part 1

Format	Color
Hex	55FFE1
RGB	85, 255, 225
RGB Percent	33%, 100%, 88%
CMY	0.6666, 0.0000, 0.1176
CMYK	0.67, 0.00, 0.12, 0.00
HSL	169°, 100%, 67%
HSV	169°, 67%, 100%
XYZ	53.0969, 78.8875, 83.6625
YIQ	200.7500, -91.6900, -45.3700

# Conversions

## Conversions Part 2

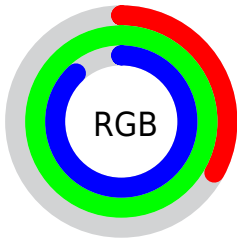
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">85, 178, 255</a>
Decimal	<a href="#">5636065</a>
CIELab	<a href="#">91.18, -50.20, 1.62</a>
CIElCh	<a href="#">91, 50.229, 178.157</a>
Yxy	<a href="#">78.8875, 0.2462, 0.3658</a>
Android (android.graphics.Color)	<a href="#">4283826145 (0xFF55FFE1)</a>
YUV	<a href="#">200.7500, 11.9552, -101.5127</a>
Hunter-Lab	<a href="#">88.8186, -48.7231, 6.3250</a>

# Details

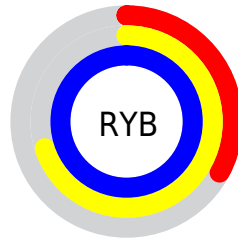
The XYZ color **53.0969, 78.8875, 83.6625** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light muted cyan. A complement of this color would be **47.5839, 28.9961, 19.3102**, and the grayscale version is **55.3325, 58.2141, 63.3951**.

A 20% lighter version of the original color is **66.9469, 85.5123, 107.5848**, and **27.2220, 42.8348, 44.8634** is the 20% darker color. If you saturate the color by 10%, you get **50.5787, 77.6593, 80.3833**, and if you desaturate by 10%, it is **56.4668, 80.5529, 87.0688**.

# Distribution



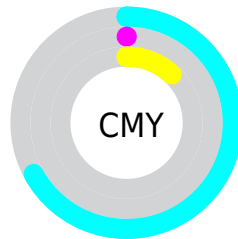
- Red (33%)
- Green (100%)
- Blue (88%)



- Red (33%)
- Yellow (70%)
- Blue (100%)



- Cyan (67%)
- Magenta (0%)
- Yellow (12%)
- Black (0%)




- Cyan (67%)
- Magenta (0%)
- Yellow (12%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 53.0969, 78.8875, 83.6625 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 53.0969, 78.8875, 83.6625 by changing the saturation by 10% instead.





 53.0969, 78.8875,  
83.6625


 53.0969, 78.8875,  
83.6625


388.9116,  
491.1757, 527.2205


 38.1079, 58.8033,  
62.1931


 93.9116, 131.8005,  
140.3605


 26.2441, 42.4548,  
44.7519


 120.4681,  
165.3981, 176.4261

 17.1399, 29.4576,  
30.9205


 151.6111,  
204.2689, 218.1942

 10.4302, 19.4272,  
20.2804

 187.7060,  
248.7974, 266.0833

 5.7496, 11.9794,  
12.4129

229.1181,  
299.3679, 320.5119

 2.7326, 6.7297,  
6.8996

276.2128,

 1.0140, 3.2936,

356.3649, 381.8986

3.3219

329.3555,  
420.1727, 450.6620

■ 0.0000, 1.2869,  
1.2613

■ 0.0000, 0.1310,  
0.0297

■ 53.0969, 78.8875,  
83.6625

■ 53.0969, 78.8875,  
83.6625

■ 50.5787, 77.6593,  
80.3833

■ 56.4668, 80.5529,  
87.0688

■ 48.8149, 76.8182,  
77.2218

■ 60.7661, 82.6955,  
90.6024

■ 47.6874, 76.3033,  
74.1733

■ 66.0669, 85.3525,  
94.2685

■ 47.3930, 76.1732,  
73.1784

■ 72.4333, 88.5569,  
98.0708

■ 79.9239, 92.3390,  
102.0127

■ 88.5933, 96.7268,  
106.0974

95.0500, 100.0000,  
108.9000

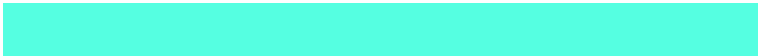
# Harmonies

## Analogous

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



56.0647, 78.8875, 53.9885



53.0969, 78.8875, 83.6625



55.4193, 78.8875, 123.3669

# Triad

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



53.0969, 78.8875, 83.6625



87.1230, 78.8875, 163.6259



88.6371, 78.8875, 39.0770

# Complementary

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



53.0969, 78.8875, 83.6625



47.5839, 28.9961, 19.3102

# 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.



98.6747, 78.8875, 56.9018



53.0969, 78.8875, 83.6625



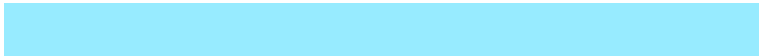
97.7333, 78.8875, 128.3996

# Square

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



53.0969, 78.8875, 83.6625



74.1965, 78.8875, 176.6381



102.1758, 78.8875, 88.1670



75.7694, 78.8875, 33.1868



# Rectangle

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



53.0969, 78.8875, 83.6625



59.8206, 78.8875, 149.3518



102.1758, 78.8875, 88.1670



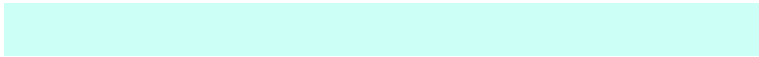
92.5062, 78.8875, 43.5692

# Sweetspot

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



53.0979, 78.8880, 83.6639



77.2964, 91.0112, 100.6819



44.6254, 75.9009, 20.8942



16.0923, 19.2517, 21.3127



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.



53.0979, 78.8880, 83.6639



49.9115, 77.3383, 79.3155



42.7231, 51.0038, 102.2007



18.4092, 20.4232, 22.4577



24.8140, 39.8222, 38.5015



2.4505, 3.8911, 3.9301



# Inverse Universe

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



47.5839, 28.9961, 19.3102



44.1441, 24.3158, 11.3834



52.0892, 40.3345, 13.6358



18.1402, 18.0394, 19.3555



21.8339, 11.2229, 2.5099

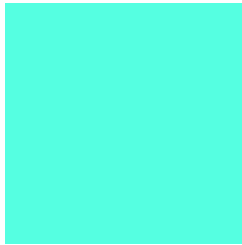


2.1600, 1.1064, 0.4240



# Previews

## White Background



This preview shows how the XYZ color 53.0969, 78.8875, 83.6625 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

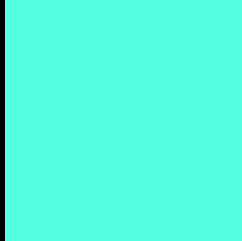
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 53.0969, 78.8875, 83.6625 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

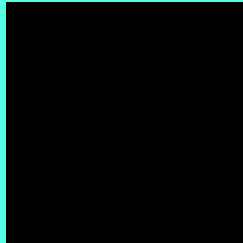
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 53.0969, 78.8875, 83.6625**

## **Background**



This preview shows how black text looks on a background with the XYZ color 53.0969, 78.8875, 83.6625.



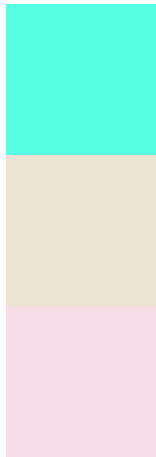
This preview shows how white text looks on a background with the XYZ color 53.0969, 78.8875,



# 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

53.0969, 78.8875, 83.6625

### Protanopia

73.6940, 77.4242, 72.0330

### Deuteranopia

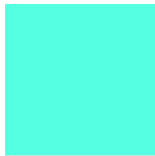
79.1333, 77.4956, 87.1313



## Tritanopia

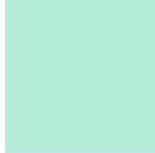
64.6096, 77.9171, 106.2420

# Trichromacy



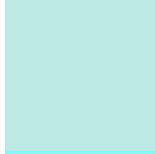
## Original Color

53.0969, 78.8875, 83.6625



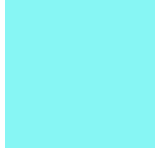
## Protanomaly

61.6060, 75.2984, 75.5770



## Deuteranomaly

64.2680, 74.7538, 85.1704



## Tritanomaly

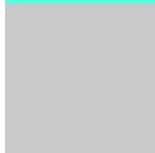
59.2766, 77.5941, 97.4409

# Monochromacy



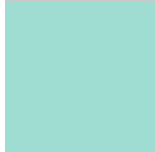
## Original Color

53.0969, 78.8875, 83.6625



## Achromatopsia

55.5167, 58.4078, 63.6061



## Achromatomaly

51.7874, 63.7370, 70.5457

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 53.0969, 78.8875, 83.6625 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(85, 255, 225)` looks like.

```
.text, #text, p{  
    color:rgb(85, 255, 225)  
}
```

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(85, 255, 225) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 255, 225) }
```

## Border

The CSS property to change the border of an element to XYZ 53.0969, 78.8875, 83.6625 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(85, 255, 225) }
```



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

```
.border{ border-color:rgb(85, 255, 225) }
```

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

Here you see how a box with a 4 pixel rgb(85, 255, 225) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 255, 225); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 255, 225);  
box-shadow:4px 4px 4px 4px rgb(85, 255,  
225) }
```

# Background

The CSS property to change the background color of an element to XYZ 53.0969, 78.8875, 83.6625 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 255, 225) }
```

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

```
.background{ background-color: rgb(85, 255,  
225) }
```

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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