

# Converting Colors

XYZ(35.7003, 56.5069, 39.5972)

Have a look what the booklet for  
XYZ(35.7003, 56.5069, 39.5972)  
contains.

<b>XYZ(35.7003, 56.5069, 39.5972)</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(35.7003, 56.5069,  
39.5972)**

# Conversions

## Conversions Part 1

Format	Color
Hex	55DE9A
RGB	85, 222, 154
RGB Percent	33%, 87%, 60%
CMY	0.6667, 0.1294, 0.3961
CMYK	0.62, 0.00, 0.31, 0.13
HSL	150°, 67%, 60%
HSV	150°, 62%, 87%
XYZ	35.7003, 56.5069, 39.5972
YIQ	173.2850, -59.8240, -50.1920

# Conversions

## Conversions Part 2

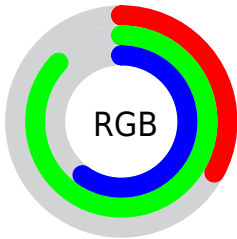
<b>Format</b>	<b>Color</b>
<b>RYB</b>	85, 176, 222
Decimal	5627546
CIELab	79.90, -52.61, 22.59
CIELCh	80, 57.256, 156.763
Yxy	56.5069, 0.2709, 0.4287
Android (android.graphics.Color)	4283817626 (0xFF55DE9A)
YUV	173.2850, -9.5075, -77.4259
Hunter-Lab	75.1711, -46.7760, 21.3881

# Details

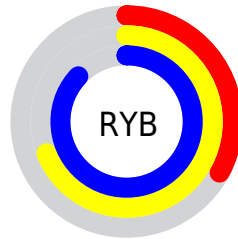
The XYZ color **35.7003, 56.5069, 39.5972** is a light color, and the websafe version is hex **33CC99**. The color can be described as light muted spring green. A complement of this color would be **39.1242, 24.3277, 32.7726**, and the grayscale version is **39.9361, 42.0159, 45.7553**.

A 20% lighter version of the original color is **59.1227, 82.2344, 73.0783**, and **16.0345, 28.2317, 17.1745** is the 20% darker color. If you saturate the color by 10%, you get **33.1162, 55.2775, 34.9040**, and if you desaturate by 10%, it is **39.0037, 58.1004, 44.7664**.

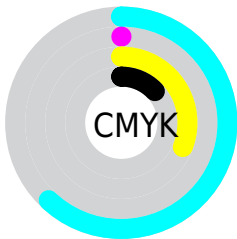
# Distribution



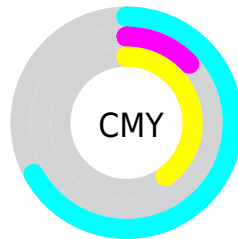
- Red (33%)
- Green (87%)
- Blue (60%)



- Red (33%)
- Yellow (69%)
- Blue (87%)



- Cyan (62%)
- Magenta (0%)
- Yellow (31%)
- Black (13%)



- Cyan (67%)
- Magenta (13%)
- Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.7003, 56.5069, 39.5972 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 35.7003, 56.5069, 39.5972 by changing the saturation by 10% instead.



■ 35.7003, 56.5069,  
39.5972

■ 35.7003, 56.5069,  
39.5972

319.1028,  
411.5990, 359.9244

■ 24.3719, 40.6095,  
26.9132

■ 67.8961, 99.7453,  
75.7801

■ 15.7359, 28.0141,  
17.2762

■ 89.4942, 127.8551,  
100.1161

■ 9.4271, 18.3363,  
10.2676

■ 115.2463,  
160.8045, 129.1733

■ 5.0802, 11.1917,  
5.4688

■ 145.5176,  
198.9779, 163.3701

■ 2.3296, 6.1959,  
2.4614

180.6736,  
242.7596, 203.1250

■ 0.8098, 2.9646,  
0.8196

221.0795,

■ 0.0000, 1.1133,

292.5341, 248.8567

0.0000

267.1008,  
348.6858, 300.9836

■ 0.0000, 0.0000,  
0.0000

■ 35.7003, 56.5069,  
39.5972

■ 35.7003, 56.5069,  
39.5972

■ 33.1162, 55.2775,  
34.9040

■ 39.0037, 58.1004,  
44.7664

■ 31.1833, 54.3728,  
30.6682

■ 43.0775, 60.0796,  
50.4216

■ 29.8271, 53.7562,  
26.8751

■ 47.9733, 62.4723,  
56.5774

■ 29.0364, 53.4102,  
24.0527

■ 53.7365, 65.3017,  
63.2465

■ 60.4094, 68.5893,  
70.4410

■ 68.0311, 72.3552,  
78.1727

■ 76.6386, 76.6182,  
86.4528

■ 83.4129, 79.9248,  
95.1588

■ 85.1200, 80.6077,  
104.1485

# Harmonies

## Analogous

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



41.4277, 56.5069, 23.2131



35.7003, 56.5069, 39.5972



34.4544, 56.5069, 69.3638

# Triad

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



35.7003, 56.5069, 39.5972



56.3792, 56.5069, 149.3252



73.6446, 56.5069, 30.6531

# Complementary

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



35.7003, 56.5069, 39.5972



39.1242, 24.3277, 32.7726

# 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.



79.0586, 56.5069, 54.3028



35.7003, 56.5069, 39.5972



68.2031, 56.5069, 128.2492

# Square

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



35.7003, 56.5069, 39.5972



45.3753, 56.5069, 140.9268



76.9360, 56.5069, 90.3462



63.0033, 56.5069, 19.5009

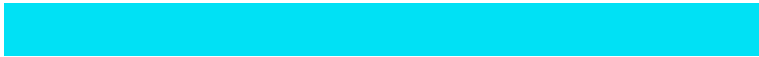


# Rectangle

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



35.7003, 56.5069, 39.5972



36.1440, 56.5069, 95.0283



76.9360, 56.5069, 90.3462



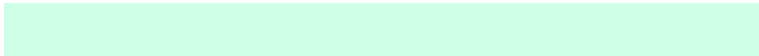
76.2011, 56.5069, 37.0000

# Sweetspot

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



35.7018, 56.5092, 39.5985



75.7835, 90.4874, 89.0369



40.9942, 59.7219, 17.9618



15.6875, 19.1056, 18.4673



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.



35.7018, 56.5092, 39.5985



44.4898, 75.2738, 46.0587



43.0542, 59.4501, 78.3158



13.8153, 15.4519, 16.0627



17.3026, 31.7459, 14.5824



1.2445, 2.2185, 1.2488



# Inverse Universe

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



39.1242, 24.3277, 32.7726



49.5477, 27.7283, 35.9814



35.0139, 22.6836, 11.1279



13.9895, 13.8134, 15.7148



19.6272, 9.9179, 9.9685

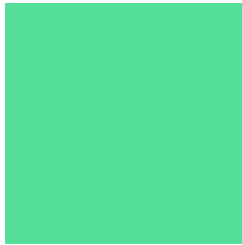


1.4056, 0.7055, 0.9289



# Previews

## White Background



This preview shows how the XYZ color 35.7003, 56.5069, 39.5972 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

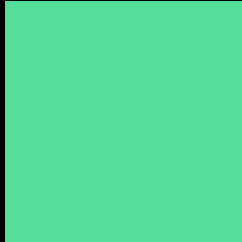
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.7003, 56.5069, 39.5972 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

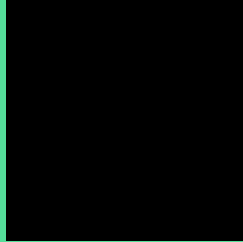
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 35.7003, 56.5069, 39.5972**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.7003, 56.5069, 39.5972.



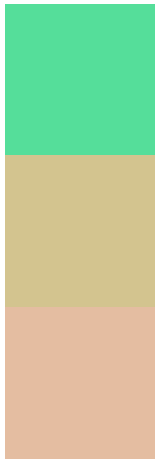
This preview shows how white text looks on a background with the XYZ color 35.7003, 56.5069,



# 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

35.7003, 56.5069, 39.5972

### Protanopia

51.5618, 55.3119, 33.9453

### Deuteranopia

56.6255, 55.4624, 41.4390



## Tritanopia

44.2568, 56.1151, 83.3616

# Trichromacy



## Original Color

35.7003, 56.5069, 39.5972



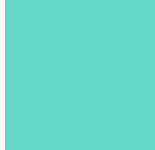
## Protanomaly

42.6148, 53.7686, 35.7361



## Deuteranomaly

44.9627, 53.4720, 40.2991



## Tritanomaly

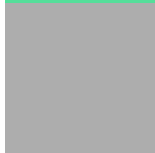
40.5834, 56.1427, 64.5748

# Monochromacy



## Original Color

35.7003, 56.5069, 39.5972



## Achromatopsia

39.7200, 41.7885, 45.5077



## Achromatomaly

36.4982, 45.6775, 42.9694

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.7003, 56.5069, 39.5972 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, 222, 154)` looks like.

```
.text, #text, p{  
    color:rgb(85, 222, 154)  
}
```

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, 222, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 222, 154) }
```

## Border

The CSS property to change the border of an element to XYZ 35.7003, 56.5069, 39.5972 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, 222, 154) }
```



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

```
.border{ border-color:rgb(85, 222, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 222, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 222, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 222, 154);  
box-shadow:4px 4px 4px 4px rgb(85, 222,  
154) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.7003, 56.5069, 39.5972 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 222, 154) }
```

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

```
.background{ background-color: rgb(85, 222,  
154) }
```

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