

# Converting Colors

XYZ(35.7578, 49.4392, 53.3798)

Have a look what the booklet for  
XYZ(35.7578, 49.4392, 53.3798)  
contains.

<b>XYZ(35.8293, 49.5133, 53.5676)</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(35.8293, 49.5133,  
53.5676)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66CCB9
RGB	102, 204, 185
RGB Percent	40%, 80%, 73%
CMY	0.6000, 0.2000, 0.2745
CMYK	0.50, 0.00, 0.09, 0.20
HSL	169°, 50%, 60%
HSV	169°, 50%, 80%
XYZ	35.8293, 49.5133, 53.5676
YIQ	171.3360, -54.6930, -27.5330

# Conversions

## Conversions Part 2

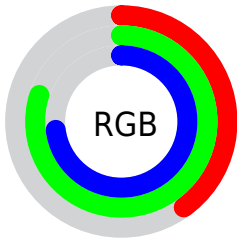
Format	Color
<a href="#">RYB</a>	<a href="#">102, 158, 204</a>
Decimal	<a href="#">6737081</a>
CIELab	<a href="#">75.77, -34.37, 0.34</a>
CIELCh	<a href="#">76, 34.369, 179.438</a>
Yxy	<a href="#">49.5133, 0.2579, 0.3564</a>
Android (android.graphics.Color)	<a href="#">4284927161</a> ( <a href="#">0xFF66CCB9</a> )
YUV	<a href="#">171.3360, 6.7364, -60.8077</a>
Hunter-Lab	<a href="#">70.3657, -32.2501, 4.1200</a>

# Details

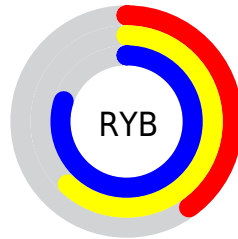
The XYZ color **35.8293, 49.5133, 53.5676** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **33.1060, 23.7219, 20.9248**, and the grayscale version is **38.8657, 40.8897, 44.5289**.

A 20% lighter version of the original color is **65.9353, 85.2418, 96.1972**, and **15.7874, 23.6120, 25.5553** is the 20% darker color. If you saturate the color by 10%, you get **33.4001, 48.3080, 51.3884**, and if you desaturate by 10%, it is **38.8409, 51.0201, 55.8323**.

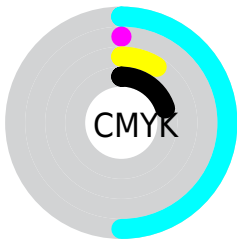
# Distribution



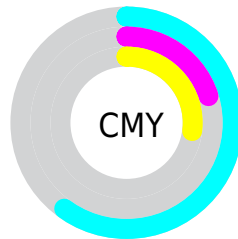
- Red (40%)
- Green (80%)
- Blue (73%)



- Red (40%)
- Yellow (62%)
- Blue (80%)



- Cyan (50%)
- Magenta (0%)
- Yellow (9%)
- Black (20%)



- Cyan (60%)
- Magenta (20%)
- Yellow (27%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.8293, 49.5133, 53.5676 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 35.8293, 49.5133, 53.5676 by changing the saturation by 10% instead.



■ 35.8293, 49.5133,  
53.5676

■ 35.8293, 49.5133,  
53.5676

319.6581,  
384.7596, 417.5869

■ 24.4719, 35.0268,  
37.8653

■ 68.0941, 89.4533,  
96.8891

■ 15.8107, 23.6835,  
25.5771

■ 89.7322, 115.6757,  
125.3452

■ 9.4803, 15.0990,  
16.2846

■ 115.5279,  
146.5788, 158.8898

■ 5.1154, 8.8889,  
9.5692

■ 145.8466,  
182.5471, 197.9413

■ 2.3506, 4.6688,  
5.0125

181.0536,  
223.9649, 242.9181

■ 0.8203, 2.0543,  
2.1957

221.5143,

■ 0.0000, 0.6387,

271.2167, 294.2390

0.6719

267.5940,  
324.6868, 352.3224

■ 0.0000, 0.0000,  
0.0000

■ 35.8293, 49.5133,  
53.5676

■ 35.8293, 49.5133,  
53.5676

■ 33.4001, 48.3080,  
51.3884

■ 38.8409, 51.0201,  
55.8323

■ 31.5065, 47.3763,  
49.2887

■ 42.4689, 52.8421,  
58.1811

■ 30.1014, 46.6952,  
47.2669

■ 46.7496, 54.9995,  
60.6173


■ 29.1272, 46.2351,  
45.3201


■ 51.7155, 57.5087,  
63.1429


■ 28.4766, 45.9406,  
43.4426


■ 57.3965, 60.3853,  
65.7596

 28.4766, 45.9406,  
43.4425

 63.8211, 63.6440,  
68.4691

 71.0161, 67.2986,  
71.2732

 75.1516, 69.3746,  
73.9930

 75.6470, 69.5727,  
76.6017

# Harmonies

## Analogous

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



37.2686, 49.5133, 37.9483



35.8293, 49.5133, 53.5676



37.1656, 49.5133, 73.0872

# Triad

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



35.8293, 49.5133, 53.5676



53.3510, 49.5133, 90.6607



53.5780, 49.5133, 28.9657

# Complementary

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



35.8293, 49.5133, 53.5676



33.1060, 23.7219, 20.9248

# 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.



58.5730, 49.5133, 38.4227



35.8293, 49.5133, 53.5676



58.4338, 49.5133, 73.8210

# Square

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



35.8293, 49.5133, 53.5676



46.9406, 49.5133, 97.2250



60.4240, 49.5133, 54.2570



47.1814, 49.5133, 25.8594



# Rectangle

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



35.8293, 49.5133, 53.5676



39.5262, 49.5133, 85.2481



60.4240, 49.5133, 54.2570



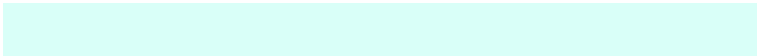
55.4971, 49.5133, 31.3839

# Sweetspot

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



35.8307, 49.5153, 53.5688



81.2248, 93.0029, 102.3751



32.0754, 48.3139, 20.2062



17.0163, 19.7200, 21.7222



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.



35.8307, 49.5153, 53.5688



55.0353, 79.8631, 84.8241



31.4005, 37.2269, 62.6595



11.4501, 12.6898, 13.9278



17.9550, 28.9273, 27.5116



0.9501, 1.5019, 1.5447



# Inverse Universe

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



33.1060, 23.7219, 20.9248



50.0545, 32.3880, 24.9098



35.6346, 30.4639, 16.5732



11.2963, 11.2472, 12.0948



15.9192, 8.1783, 2.0274

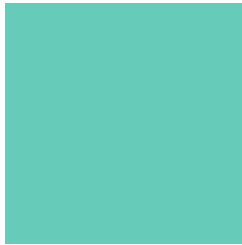


0.8476, 0.4325, 0.2434



# Previews

## White Background



This preview shows how the XYZ color 35.8293, 49.5133, 53.5676 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

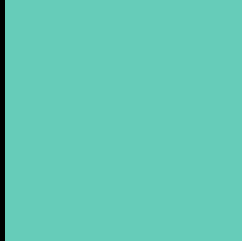
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.8293, 49.5133, 53.5676 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

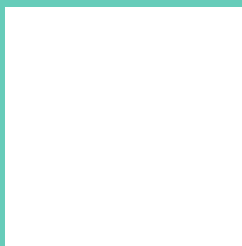
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 35.8293, 49.5133, 53.5676**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.8293, 49.5133, 53.5676.



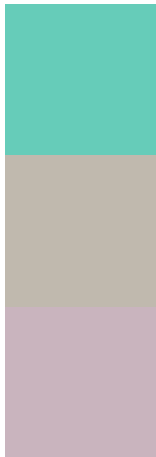
This preview shows how white text looks on a background with the XYZ color 35.8293, 49.5133,



# 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

35.8293, 49.5133, 53.5676

### Protanopia

46.7272, 48.9604, 47.0319

### Deuteranopia

49.7029, 48.7777, 55.5106



## Tritanopia

39.7310, 49.7112, 72.4669

# Trichromacy



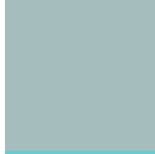
## Original Color

35.8293, 49.5133, 53.5676



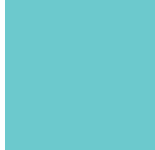
## Protanomaly

41.1836, 48.2846, 49.2687



## Deuteranomaly

42.7917, 48.0254, 54.5914



## Tritanomaly

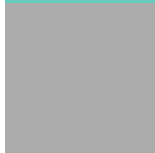
38.0904, 49.3692, 65.2792

# Monochromacy



## Original Color

35.8293, 49.5133, 53.5676



## Achromatopsia

38.7082, 40.7240, 44.3485



## Achromatomaly

36.6240, 43.1126, 47.4656

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.8293, 49.5133, 53.5676 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, 204, 185)` looks like.

```
.text, #text, p{  
    color:rgb(102, 204, 185)  
}
```

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, 204, 185) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 204, 185) }
```

## Border

The CSS property to change the border of an element to XYZ 35.8293, 49.5133, 53.5676 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, 204, 185) }
```



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

```
.border{ border-color:rgb(102, 204, 185) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 204, 185)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 204, 185); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 204, 185);  
box-shadow:4px 4px 4px 4px rgb(102, 204,  
185) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.8293, 49.5133, 53.5676 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 204, 185) }
```

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

```
.background{ background-color: rgb(102,  
204, 185) }
```

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