

# Converting Colors

XYZ(34.8181, 53.7283, 57.7692)

Have a look what the booklet for  
XYZ(34.8181, 53.7283, 57.7692)  
contains.

<b>XYZ(34.8125, 53.6944, 57.8195)</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(34.8125, 53.6944,  
57.8195)**

# Conversions

## Conversions Part 1

Format	Color
Hex	20D9BF
RGB	32, 217, 191
RGB Percent	13%, 85%, 75%
CMY	0.8744, 0.1490, 0.2510
CMYK	0.85, 0.00, 0.12, 0.15
HSL	172°, 74%, 49%
HSV	172°, 85%, 85%
XYZ	34.8125, 53.6944, 57.8195
YIQ	158.7210, -101.9140, -47.3060

# Conversions

## Conversions Part 2

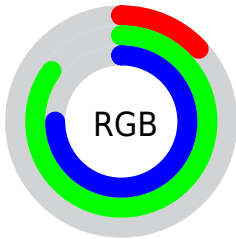
Format	Color
<a href="#">RYB</a>	<a href="#">32, 131, 217</a>
Decimal	<a href="#">2152895</a>
CIELab	<a href="#">78.28, -48.65, 0.60</a>
CIElCh	<a href="#">78, 48.656, 179.294</a>
Yxy	<a href="#">53.6944, 0.2379, 0.3669</a>
Android (android.graphics.Color)	<a href="#">4280342975</a> ( <a href="#">0xFF20D9BF</a> )
YUV	<a href="#">158.7210, 15.9135, -111.1343</a>
Hunter-Lab	<a href="#">73.2765, -43.4313, 4.5102</a>

# Details

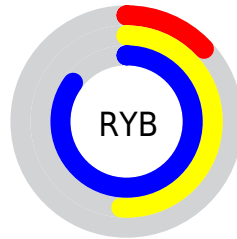
The XYZ color **34.8125, 53.6944, 57.8195** is a dark color, and the websafe version is hex **33CC99**. The color can be described as middle washed spring green. A complement of this color would be **29.8974, 16.0918, 5.5355**, and the grayscale version is **32.7930, 34.5008, 37.5714**.

A 20% lighter version of the original color is **59.6187, 81.8802, 100.6579**, and **17.3323, 27.3247, 28.4054** is the 20% darker color. If you saturate the color by 10%, you get **34.0147, 53.3228, 56.0491**, and if you desaturate by 10%, it is **36.0633, 54.3013, 59.6500**.

# Distribution



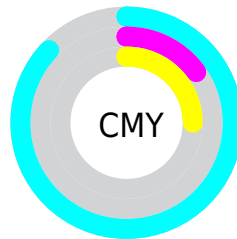
- Red (13%)
- Green (85%)
- Blue (75%)



- Red (13%)
- Yellow (51%)
- Blue (85%)



- Cyan (85%)
- Magenta (0%)
- Yellow (12%)
- Black (15%)




- Cyan (87%)
- Magenta (15%)
- Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.8125, 53.6944, 57.8195 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 34.8125, 53.6944, 57.8195 by changing the saturation by 10% instead.





 34.8125, 53.6944,  
57.8195


 34.8125, 53.6944,  
57.8195


315.2625,  
400.9436, 434.0925


 23.6843, 38.3574,  
41.2498


 66.5311, 95.6254,  
103.1721


 15.2231, 26.2602,  
28.1932


 87.8523, 122.9882,  
132.7922


 9.0634, 17.0184,  
18.2310


 113.3018,  
155.1283, 167.5994

 4.8400, 10.2476,  
10.9448

 143.2451,  
192.4302, 208.0124

 2.1875, 5.5634,  
5.9160

 178.0474,  
235.2783, 254.4496

 0.7361, 2.5815,  
2.7261

218.0742,

 0.0000, 0.9174,

284.0570, 307.3297

0.9565

263.6908,  
339.1506, 367.0711

■ 0.0000, 0.0000,  
0.0000

■ 34.8125, 53.6944,  
57.8195

■ 34.8125, 53.6944,  
57.8195

■ 34.0147, 53.3228,  
56.0491

■ 36.0633, 54.3013,  
59.6500

■ 33.7301, 53.1940,  
55.2242

■ 37.8378, 55.1761,  
61.5405

■ 40.1991, 56.3525,  
63.4953

■ 43.2000, 57.8579,  
65.5173

■ 46.8876, 59.7165,  
67.6087

■ 51.3044, 61.9501,  
69.7719

■ 56.4895, 64.5790,  
72.0087

■ 62.4791, 67.6218,  
74.3212

■ 69.3072, 71.0959,  
76.7111

# Harmonies

## Analogous

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



36.8411, 53.6944, 35.5456



34.8125, 53.6944, 57.8195



36.6596, 53.6944, 88.0959

# Triad

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



34.8125, 53.6944, 57.8195



60.5395, 53.6944, 117.2394



60.9790, 53.6944, 23.9465

# Complementary

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



34.8125, 53.6944, 57.8195



29.8974, 16.0918, 5.5355

# 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.



68.7487, 53.6944, 36.3559



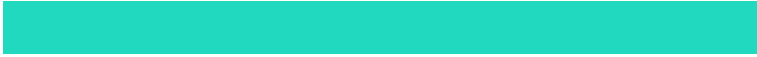
34.8125, 53.6944, 57.8195



68.4735, 53.6944, 89.5769

# Square

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



34.8125, 53.6944, 57.8195



50.8094, 53.6944, 128.2355



71.6459, 53.6944, 59.1134



51.2611, 53.6944, 20.1142

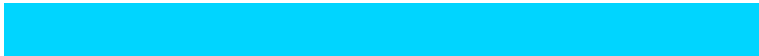


# Rectangle

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



34.8125, 53.6944, 57.8195



39.9893, 53.6944, 107.9731



71.6459, 53.6944, 59.1134



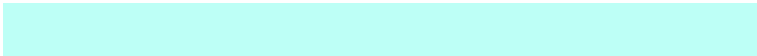
63.9475, 53.6944, 27.0145

# Sweetspot

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



34.8140, 53.6965, 57.8208



73.2575, 88.9347, 100.2373



26.9239, 50.6852, 9.7318



15.1857, 18.7855, 21.2199



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.



34.8140, 53.6965, 57.8208



48.5669, 76.6428, 79.3604



24.3911, 27.8575, 69.7394



13.3620, 14.7964, 16.3695



20.4474, 32.2116, 33.5849



1.3468, 2.0957, 2.2922



# Inverse Universe

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



29.8974, 16.0918, 5.5355



41.5560, 21.3864, 3.5942



33.1299, 23.3619, 4.1308



13.1302, 13.0812, 13.9470



17.4909, 8.9974, 1.6994

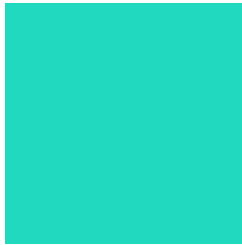


1.1576, 0.5927, 0.2387



# Previews

## White Background



This preview shows how the XYZ color 34.8125, 53.6944, 57.8195 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

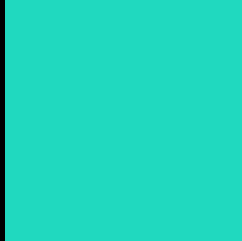
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 34.8125, 53.6944, 57.8195 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

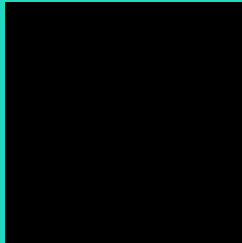
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

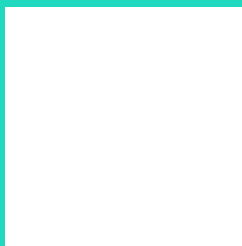
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 34.8125, 53.6944, 57.8195**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.8125, 53.6944, 57.8195.



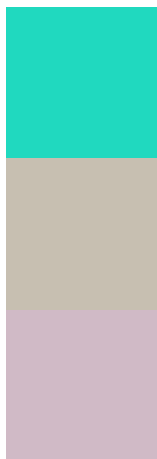
This preview shows how white text looks on a background with the XYZ color 34.8125, 53.6944,



# 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

34.8125, 53.6944, 57.8195

### Protanopia

50.1198, 52.5780, 49.1020

### Deuteranopia

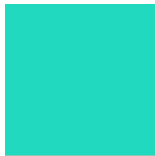
53.7644, 52.6049, 60.7462



## Tritanopia

39.8007, 53.8341, 82.4220

# Trichromacy



## Original Color

34.8125, 53.6944, 57.8195



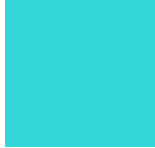
## Protanomaly

39.5790, 50.0892, 51.8381



## Deuteranomaly

41.3182, 49.8019, 59.0648



## Tritanomaly

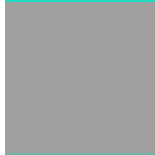
37.7285, 53.7295, 72.6723

# Monochromacy



## Original Color

34.8125, 53.6944, 57.8195



## Achromatopsia

32.9542, 34.6704, 37.7561



## Achromatomaly

30.4820, 39.0935, 44.4673

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.8125, 53.6944, 57.8195 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(32, 217, 191)` looks like.

```
.text, #text, p{  
    color:rgb(32, 217, 191)  
}
```

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(32, 217, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 217, 191) }
```

## Border

The CSS property to change the border of an element to XYZ 34.8125, 53.6944, 57.8195 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(32, 217, 191) }
```



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

```
.border{ border-color:rgb(32, 217, 191) }
```

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

Here you see how a box with a 4 pixel `rgb(32, 217, 191)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(32, 217, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(32, 217, 191);  
box-shadow:4px 4px 4px 4px rgb(32, 217,  
191) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.8125, 53.6944, 57.8195 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 217, 191) }
```

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

```
.background{ background-color: rgb(32, 217,  
191) }
```

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