

# Converting Colors

XYZ(34.8539, 57.2298, 46.7524)

Have a look what the booklet for  
XYZ(34.8539, 57.2298, 46.7524)  
contains.

<b>XYZ(34.7798, 57.0723, 46.7191)</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(34.7798, 57.0723,  
46.7191)**

# Conversions

## Conversions Part 1

Format	Color
Hex	23E1A9
RGB	35, 225, 169
RGB Percent	14%, 88%, 66%
CMY	0.8627, 0.1176, 0.3372
CMYK	0.84, 0.00, 0.25, 0.12
HSL	162°, 76%, 51%
HSV	162°, 84%, 88%
XYZ	34.7798, 57.0723, 46.7191
YIQ	161.8060, -95.2640, -57.6960

# Conversions

## Conversions Part 2

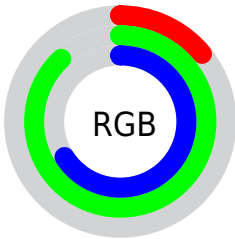
<b>Format</b>	<b>Color</b>
<b>RYB</b>	35, 146, 225
Decimal	2351529
CIELab	80.22, -57.11, 15.05
CIELCh	80, 59.063, 165.239
Yxy	57.0723, 0.2510, 0.4119
Android (android.graphics.Color)	4280541609 (0xFF23E1A9)
YUV	161.8060, 3.5466, -111.2089
Hunter-Lab	75.5462, -50.0284, 16.2164

# Details

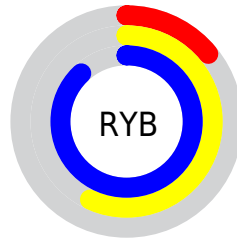
The XYZ color **34.7798, 57.0723, 46.7191** is a dark color, and the websafe version is hex **00CC99**. The color can be described as middle washed spring green. A complement of this color would be **33.5428, 17.9665, 11.6006**, and the grayscale version is **34.2701, 36.0548, 39.2637**.

A 20% lighter version of the original color is **56.5507, 80.6837, 83.1140**, and **17.2135, 29.2896, 21.5758** is the 20% darker color. If you saturate the color by 10%, you get **33.6396, 56.5561, 43.4985**, and if you desaturate by 10%, it is **36.4432, 57.8575, 50.1316**.

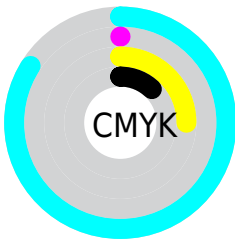
# Distribution



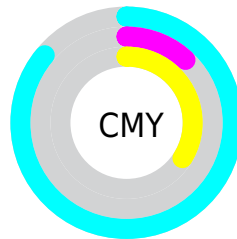
- Red (14%)
- Green (88%)
- Blue (66%)



- Red (14%)
- Yellow (57%)
- Blue (88%)



- Cyan (84%)
- Magenta (0%)
- Yellow (25%)
- Black (12%)




- Cyan (86%)
- Magenta (12%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.7798, 57.0723, 46.7191 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 34.7798, 57.0723, 46.7191 by changing the saturation by 10% instead.





 34.7798, 57.0723,  
46.7191


 34.7798, 57.0723,  
46.7191


315.1204,  
413.7202, 390.0534


 23.6590, 41.0633,  
32.4609


 66.4808, 100.5707,  
86.6398


 15.2042, 28.3685,  
21.4460


 87.7917, 128.8288,  
113.1393


 9.0501, 18.6037,  
13.2560


 113.2300,  
161.9388, 144.5564

 4.8312, 11.3842,  
7.4723

 143.1611,  
200.2850, 181.3095

 2.1823, 6.3259,  
3.6763

 177.9503,  
244.2519, 223.8172

 0.7334, 3.0442,  
1.4495

217.9631,

 0.0000, 1.1549,

294.2238, 272.4981

0.1799

263.5646,  
350.5851, 327.7706

■ 0.0000, 0.0244,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 34.7798, 57.0723,  
46.7191

■ 34.7798, 57.0723,  
46.7191

■ 33.6396, 56.5561,  
43.4985

■ 36.4432, 57.8575,  
50.1316

■ 33.1566, 56.3445,  
41.7844

■ 38.7066, 58.9468,  
53.7383

■ 41.6383, 60.3769,  
57.5457

■ 45.2961, 62.1775,  
61.5590

■ 49.7311, 64.3750,  
65.7828

■ 54.9901, 66.9933,  
70.2213

■ 61.1157, 70.0544,  
74.8789

■ 68.1477, 73.5788,  
79.7593

■ 76.1234, 77.5856,  
84.8665

# Harmonies

## Analogous

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



39.3980, 57.0723, 26.1438



34.7798, 57.0723, 46.7191



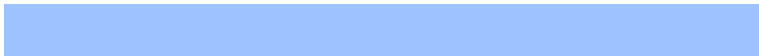
34.8170, 57.0723, 81.2710

# Triad

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



34.7798, 57.0723, 46.7191



60.5678, 57.0723, 150.6951



72.2552, 57.0723, 25.9245

# Complementary

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



34.7798, 57.0723, 46.7191



33.5428, 17.9665, 11.6006

# 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.



79.8185, 57.0723, 46.2781



34.7798, 57.0723, 46.7191



72.4209, 57.0723, 121.5725

# Square

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



34.7798, 57.0723, 46.7191



48.5525, 57.0723, 150.9540



79.8833, 57.0723, 80.6328

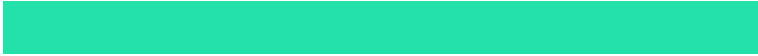


60.3670, 57.0723, 17.5211



# Rectangle

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



34.7798, 57.0723, 46.7191



37.4336, 57.0723, 108.8429



79.8833, 57.0723, 80.6328



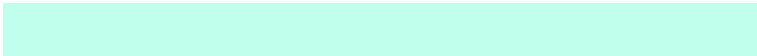
75.4606, 57.0723, 31.1745

# Sweetspot

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



34.7813, 57.0745, 46.7204



72.4795, 88.6971, 92.8165



31.6443, 56.2496, 10.7805



14.9635, 18.7107, 19.4147



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.



34.7813, 57.0745, 46.7204



43.9816, 74.8086, 55.2143



32.0561, 41.3369, 77.5260



13.9354, 15.4999, 16.6951



19.1591, 32.4885, 24.3589



1.3666, 2.2674, 1.8918



# Inverse Universe

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



33.5428, 17.9665, 11.6006



42.5156, 21.7702, 8.6472



33.7392, 20.8960, 3.8461



13.8726, 13.7667, 15.0994



18.5099, 9.4710, 4.0851

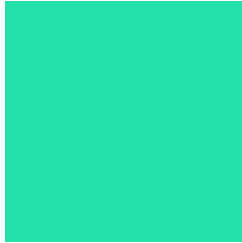


1.3214, 0.6719, 0.4856



# Previews

## White Background



This preview shows how the XYZ color 34.7798, 57.0723, 46.7191 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 34.7798, 57.0723, 46.7191 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

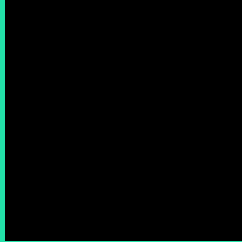
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

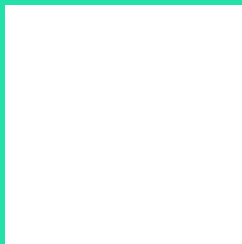
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 34.7798, 57.0723, 46.7191**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.7798, 57.0723, 46.7191.



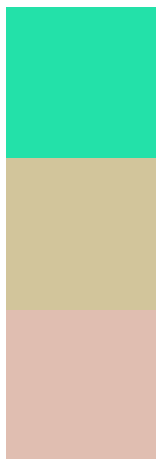
This preview shows how white text looks on a background with the XYZ color 34.7798, 57.0723,



# 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

34.7798, 57.0723, 46.7191

### Protanopia

52.4610, 56.0007, 39.0546

### Deuteranopia

57.0897, 55.8485, 49.3659



## Tritanopia

42.5490, 56.6719, 86.5381

# Trichromacy



## Original Color

34.7798, 57.0723, 46.7191



## Protanomaly

40.5120, 53.2747, 41.4055



## Deuteranomaly

42.5135, 52.7364, 47.9828



## Tritanomaly

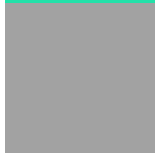
38.9510, 56.3403, 69.7946

# Monochromacy



## Original Color

34.7798, 57.0723, 46.7191



## Achromatopsia

34.3422, 36.1307, 39.3463



## Achromatomaly

31.3430, 41.1275, 41.8838

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.7798, 57.0723, 46.7191 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(35, 225, 169)` looks like.

```
.text, #text, p{  
    color:rgb(35, 225, 169)  
}
```

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(35, 225, 169) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 225, 169) }
```

## Border

The CSS property to change the border of an element to XYZ 34.7798, 57.0723, 46.7191 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(35, 225, 169) }
```



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

```
.border{ border-color:rgb(35, 225, 169) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 225, 169)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 225, 169); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 225, 169);  
box-shadow:4px 4px 4px 4px rgb(35, 225,  
169) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.7798, 57.0723, 46.7191 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 225, 169) }
```

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

```
.background{ background-color: rgb(35, 225,  
169) }
```

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