

# Converting Colors

XYZ(42.4850, 59.2312, 74.8443)

Have a look what the booklet for  
XYZ(42.4850, 59.2312, 74.8443)  
contains.

<b>XYZ(42.4834, 59.2307, 74.8392)</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(42.4834, 59.2307,  
74.8392)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56DED9
RGB	86, 222, 217
RGB Percent	34%, 87%, 85%
CMY	0.6627, 0.1294, 0.1490
CMYK	0.61, 0.00, 0.02, 0.13
HSL	178°, 67%, 60%
HSV	178°, 61%, 87%
XYZ	42.4834, 59.2307, 74.8392
YIQ	180.7660, -79.4510, -30.3870

# Conversions

## Conversions Part 2

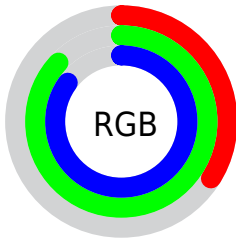
<b>Format</b>	<b>Color</b>
<b>RYB</b>	86, 155, 222
Decimal	5693145
CIELab	81.42, -37.61, -8.54
CIELCh	81, 38.570, 192.793
Yxy	59.2307, 0.2406, 0.3355
Android (android.graphics.Color)	4283883225 (0xFF56DED9)
YUV	180.7660, 17.8634, -83.1098
Hunter-Lab	76.9615, -36.1491, -3.7820

# Details

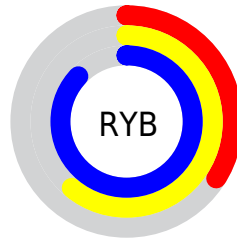
The XYZ color **42.4834, 59.2307, 74.8392** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light muted cyan. A complement of this color would be **35.3423, 22.9423, 12.4651**, and the grayscale version is **43.7338, 46.0113, 50.1064**.

A 20% lighter version of the original color is **66.2044, 85.1296, 107.5500**, and **20.1578, 29.8811, 38.8876** is the 20% darker color. If you saturate the color by 10%, you get **40.6426, 58.2953, 74.2013**, and if you desaturate by 10%, it is **44.9629, 60.4980, 75.5124**.

# Distribution



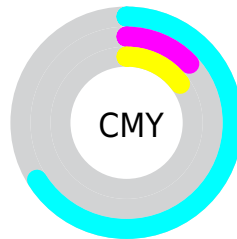
- Red (34%)
- Green (87%)
- Blue (85%)



- Red (34%)
- Yellow (61%)
- Blue (87%)



- Cyan (61%)
- Magenta (0%)
- Yellow (2%)
- Black (13%)




- Cyan (66%)
- Magenta (13%)
- Yellow (15%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.4834, 59.2307, 74.8392 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 42.4834, 59.2307, 74.8392 by changing the saturation by 10% instead.





 42.4834, 59.2307,  
74.8392


 42.4834, 59.2307,  
74.8392


347.4406,  
421.7563, 496.6054


 29.6728, 42.7989,  
54.9802


 78.1913, 103.7129,  
127.8297


 19.7372, 29.7273,  
38.9874


 101.8192,  
132.5320, 161.7983

 12.3113, 19.6317,  
26.4422


 129.7837,  
166.2491, 201.3073

 7.0298, 12.1276,  
16.9260

 162.4500,  
205.2484, 246.7751

 3.5272, 6.8307,  
10.0203

200.1834,  
249.9143, 298.6202

 1.4383, 3.3564,  
5.3067

243.3495,

 0.2833, 1.3205,

300.6314, 357.2613

2.3664

292.3134,  
357.7839, 423.1168

■ 0.0000, 0.1570,  
0.7681

■ 0.0000, 0.0000,  
0.0000

■ 42.4834, 59.2307,  
74.8392

■ 42.4834, 59.2307,  
74.8392

■ 40.6426, 58.2953,  
74.2013

■ 44.9629, 60.4980,  
75.5124

■ 39.3742, 57.6536,  
73.5916

■ 48.1289, 62.1177,  
76.2191


■ 38.6070, 57.2702,  
73.0080


■ 52.0308, 64.1168,  
76.9631


■ 38.2391, 57.0911,  
72.5144


■ 56.7121, 66.5177,  
77.7463

 62.2128, 69.3408,  
78.5705

 68.5700, 72.6055,  
79.4377

 75.8189, 76.3297,  
80.3493

 80.7536, 78.8609,  
81.1554

 80.8643, 78.9052,  
81.7385

# Harmonies

## Analogous

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



42.7402, 59.2307, 52.2219



42.4834, 59.2307, 74.8392



45.6633, 59.2307, 99.6290

# Triad

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



42.4834, 59.2307, 74.8392



67.5075, 59.2307, 102.8969



61.0119, 59.2307, 30.6805

# Complementary

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



42.4834, 59.2307, 74.8392



35.3423, 22.9423, 12.4651

# 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.



68.4654, 59.2307, 38.7728



42.4834, 59.2307, 74.8392



72.4544, 59.2307, 78.5480

# Square

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



42.4834, 59.2307, 74.8392



59.8026, 59.2307, 118.2448



72.8208, 59.2307, 55.1457



52.9312, 59.2307, 30.1440



# Rectangle

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



42.4834, 59.2307, 74.8392



49.4980, 59.2307, 112.6251



72.8208, 59.2307, 55.1457



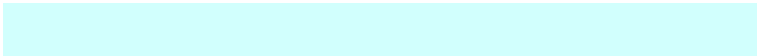
63.6917, 59.2307, 32.4990

# Sweetspot

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



42.4852, 59.2330, 74.8406



79.8622, 92.2016, 106.7767



32.2968, 55.2334, 17.7645



16.6452, 19.5048, 22.7850



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.



42.4852, 59.2330, 74.8406



54.9796, 79.4697, 101.2970



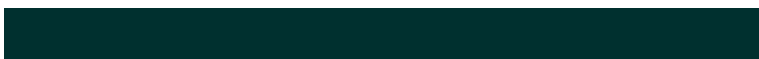
29.7345, 32.6745, 73.8493



14.0937, 15.5632, 17.5284



22.7220, 33.9136, 43.1206



1.5819, 2.3535, 3.0252



# Inverse Universe

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



35.3423, 22.9423, 12.4651



44.4164, 25.6758, 8.9601



42.2709, 37.1335, 13.7451



13.7276, 13.7087, 14.3355



17.9286, 9.2385, 1.0241

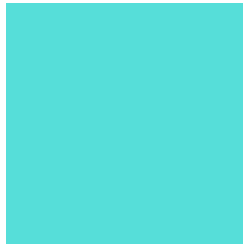


1.2500, 0.6433, 0.1095



# Previews

## White Background



This preview shows how the XYZ color 42.4834, 59.2307, 74.8392 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

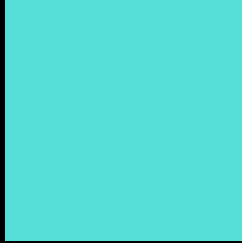
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.4834, 59.2307, 74.8392 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

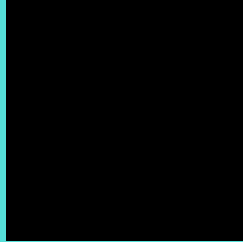
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

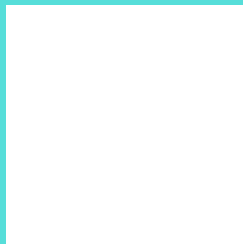
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.4834, 59.2307, 74.8392**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.4834, 59.2307, 74.8392.



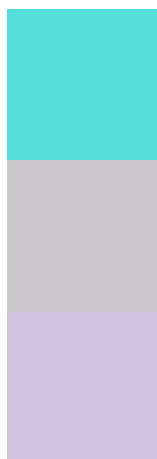
This preview shows how white text looks on a background with the XYZ color 42.4834, 59.2307,



# 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

42.4834, 59.2307, 74.8392

### Protanopia

56.1820, 58.3647, 65.4311

### Deuteranopia

59.4127, 58.0596, 77.8873



## Tritanopia

45.3369, 59.2104, 89.1600

# Trichromacy



## Original Color

42.4834, 59.2307, 74.8392



## Protanomaly

48.5617, 57.1888, 68.8007



## Deuteranomaly

50.3995, 56.8824, 76.7297



## Tritanomaly

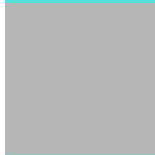
44.2898, 59.1749, 83.9505

# Monochromacy



## Original Color

42.4834, 59.2307, 74.8392



## Achromatopsia

43.9204, 46.2077, 50.3202



## Achromatomaly

41.3316, 49.4859, 58.4123

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.4834, 59.2307, 74.8392 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(86, 222, 217)` looks like.

```
.text, #text, p{  
    color:rgb(86, 222, 217)  
}
```

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(86, 222, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 222, 217) }
```

## Border

The CSS property to change the border of an element to XYZ 42.4834, 59.2307, 74.8392 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(86, 222, 217) }
```



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

```
.border{ border-color:rgb(86, 222, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(86, 222, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 222, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 222, 217);  
box-shadow:4px 4px 4px 4px rgb(86, 222,  
217) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.4834, 59.2307, 74.8392 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 222, 217) }
```

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

```
.background{ background-color: rgb(86, 222,  
217) }
```

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