

# Converting Colors

XYZ(33.7757, 47.7061, 75.2390)

Have a look what the booklet for  
XYZ(33.7757, 47.7061, 75.2390)  
contains.

<b>XYZ(34.2742, 47.8792, 75.1453)</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(34.2742, 47.8792,  
75.1453)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00CBDC
RGB	0, 203, 220
RGB Percent	0%, 80%, 86%
CMY	0.9998, 0.2039, 0.1372
CMYK	1.00, 0.08, 0.00, 0.14
HSL	185°, 100%, 43%
HSV	185°, 100%, 86%
XYZ	34.2742, 47.8792, 75.1453
YIQ	144.2410, -126.4450, -37.7490

# Conversions

## Conversions Part 2

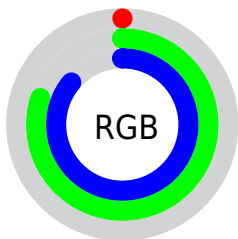
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 106, 220
Decimal	52188
CIELab	74.75, -35.27, -20.28
CIELCh	75, 40.685, 209.899
Yxy	47.8792, 0.2179, 0.3044
Android (android.graphics.Color)	4278242268 (0xFF00CBDC)
YUV	144.2410, 37.3492, -126.4994
Hunter-Lab	69.1948, -32.6746, -15.9524

# Details

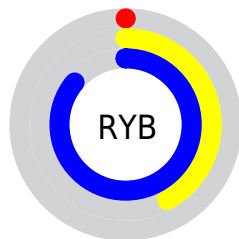
The XYZ color **34.2742, 47.8792, 75.1453** is a dark color, and the websafe version is hex **33CCCC**. The color can be described as middle washed cyan. A complement of this color would be **29.7171, 15.6185, 1.4499**, and the grayscale version is **26.5040, 27.8843, 30.3660**.

A 20% lighter version of the original color is **60.1167, 81.9912, 107.2651**, and **17.3814, 23.8964, 39.2937** is the 20% darker color. If you saturate the color by 10%, you get **34.2741, 47.8786, 75.1461**, and if you desaturate by 10%, it is **35.0109, 48.8593, 75.2966**.

# Distribution



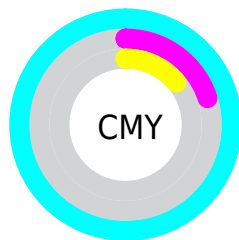
- Red (0%)
- Green (80%)
- Blue (86%)



- Red (0%)
- Yellow (42%)
- Blue (86%)



- Cyan (100%)
- Magenta (8%)
- Yellow (0%)
- Black (14%)



- Cyan (100%)
- Magenta (20%)
- Yellow (14%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.2742, 47.8792, 75.1453 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 34.2742, 47.8792, 75.1453 by changing the saturation by 10% instead.



34.2742, 47.8792,  
75.1453

34.2742, 47.8792,  
75.1453

312.9174,  
378.3131, 497.6856

23.2682, 33.7312,  
55.2295

65.7013, 87.0245,  
128.2670

14.9135, 22.6872,  
39.1856

86.8531, 112.7907,  
162.3100

8.8446, 14.3627,  
26.5952

112.1176,  
143.1983, 201.8991

4.6963, 8.3734,  
17.0397

141.8601,  
178.6319, 247.4529

2.1031, 4.3348,  
10.1006

176.4460,  
219.4757, 299.3899

0.6909, 1.8625,  
5.3592

216.2406,

0.0000, 0.5257,

266.1143, 358.1286

2.3971

261.6093,  
318.9320, 424.0877

■ 0.0000, 0.0000,  
0.7849

■ 0.0000, 0.0000,  
0.0000

■ 34.2742, 47.8792,  
75.1453

■ 34.2742, 47.8792,  
75.1453

■ 34.2741, 47.8786,  
75.1461

■ 35.0109, 48.8593,  
75.2966

■ 36.1280, 50.0411,  
75.4658

■ 37.7500, 51.4898,  
75.6599

■ 39.9462, 53.2411,  
75.8822

■ 42.7753, 55.3253,  
76.1354

■ 46.2883, 57.7687,  
76.4219

■ 50.5314, 60.5951,  
76.7438

■ 55.5464, 63.8261,  
77.1031

■ 61.3721, 67.4818,  
77.5017

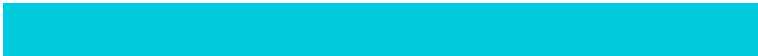
# Harmonies

## Analogous

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



32.7334, 47.8792, 52.0606



34.2742, 47.8792, 75.1453



38.7510, 47.8792, 95.8246

# Triad

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



34.2742, 47.8792, 75.1453



58.9315, 47.8792, 75.3040



45.5328, 47.8792, 21.1226

# Complementary

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



34.2742, 47.8792, 75.1453



29.7171, 15.6185, 1.4499

# 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.



53.0075, 47.8792, 24.2702



34.2742, 47.8792, 75.1453



61.2360, 47.8792, 52.2041

# Square

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



34.2742, 47.8792, 75.1453



52.9594, 47.8792, 95.9323



58.9613, 47.8792, 34.3745



38.7900, 47.8792, 24.2271



# Rectangle

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



34.2742, 47.8792, 75.1453



43.0624, 47.8792, 103.2944



58.9613, 47.8792, 34.3745



48.0440, 47.8792, 21.4696

# Sweetspot

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



34.2757, 47.8809, 75.1465



70.4279, 84.5499, 107.2156



25.6784, 51.2211, 8.9747



14.5102, 17.7248, 22.9064



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.



34.2757, 47.8809, 75.1465



47.8422, 66.8043, 104.9807



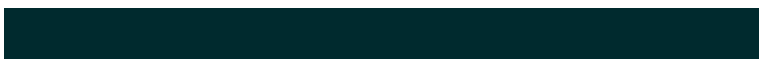
17.0442, 13.4179, 69.4026



13.3543, 14.6483, 16.7757



20.1522, 28.1739, 44.1144



1.3317, 1.8775, 2.8667



# Inverse Universe

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



40.2960, 19.5289, 58.1473



56.2777, 27.2751, 81.1175



36.8104, 29.8050, 3.8143



13.5687, 13.2566, 16.2560



23.6672, 11.4679, 34.2234

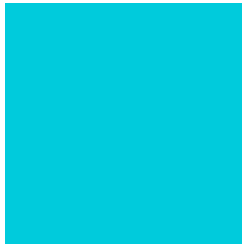


1.5465, 0.7482, 2.2866



# Previews

## White Background



This preview shows how the XYZ color 34.2742, 47.8792, 75.1453 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

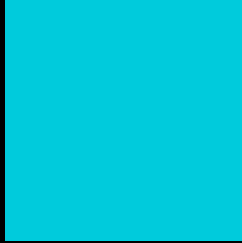
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 34.2742, 47.8792, 75.1453 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

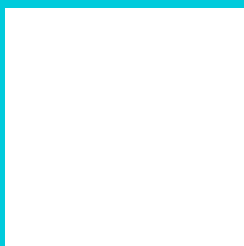
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 34.2742, 47.8792, 75.1453**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.2742, 47.8792, 75.1453.



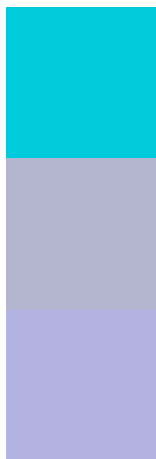
This preview shows how white text looks on a background with the XYZ color 34.2742, 47.8792,



# 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

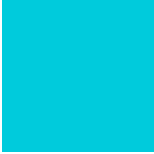
34.2742, 47.8792, 75.1453

### Protanopia

46.2549, 47.0877, 65.0435

### Deuteranopia

48.3011, 47.2601, 77.8105



## **Tritanopia**

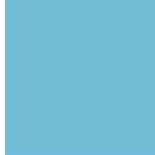
34.2742, 47.8792, 75.1453

# Trichromacy



## Original Color

34.2742, 47.8792, 75.1453



## Protanomaly

36.8949, 44.6757, 68.3067



## Deuteranomaly

38.2419, 44.8716, 76.4576



## Tritanomaly

34.2742, 47.8792, 75.1453

# Monochromacy



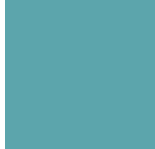
## Original Color

34.2742, 47.8792, 75.1453



## Achromatopsia

26.5089, 27.8894, 30.3716



## Achromatomaly

25.3152, 32.1641, 43.9038

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.2742, 47.8792, 75.1453 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(0, 203, 220)` looks like.

```
.text, #text, p{  
    color:rgb(0, 203, 220)  
}
```

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(0, 203, 220) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 203, 220) }
```

## Border

The CSS property to change the border of an element to XYZ 34.2742, 47.8792, 75.1453 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(0, 203, 220) }
```



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

```
.border{ border-color:rgb(0, 203, 220) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 203, 220)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 203, 220); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 203, 220);  
box-shadow:4px 4px 4px 4px rgb(0, 203,  
220) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.2742, 47.8792, 75.1453 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 203, 220) }
```

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

```
.background{ background-color: rgb(0, 203,  
220) }
```

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](#).

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