

# Converting Colors

XYZ(25.5892, 55.4976, 79.6666)

Have a look what the booklet for  
XYZ(25.5892, 55.4976, 79.6666)  
contains.

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# Color

**XYZ(42.8774, 64.2275,  
80.6583)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00EAE0
RGB	0, 234, 224
RGB Percent	0%, 92%, 88%
CMY	0.9998, 0.0823, 0.1216
CMYK	1.00, 0.00, 0.04, 0.08
HSL	177°, 100%, 46%
HSV	177°, 100%, 92%
XYZ	42.8774, 64.2275, 80.6583
YIQ	162.8940, -136.2540, -52.7180

# Conversions

## Conversions Part 2

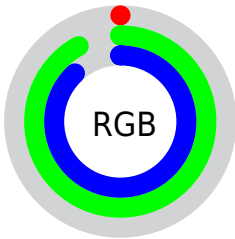
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 120, 234
Decimal	60128
CIELab	84.08, -47.93, -8.41
CIELCh	84, 48.657, 189.948
Yxy	64.2275, 0.2284, 0.3421
Android (android.graphics.Color)	4278250208 (0xFF00EAE0)
YUV	162.8940, 30.1253, -142.8580
Hunter-Lab	80.1421, -44.7480, -3.5725

# Details

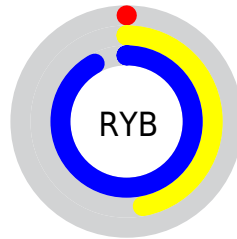
The XYZ color **42.8774, 64.2275, 80.6583** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **33.9886, 17.5163, 1.8785**, and the grayscale version is **34.6801, 36.4862, 39.7335**.

A 20% lighter version of the original color is **60.7494, 82.3174, 107.2948**, and **22.8836, 34.3089, 42.9523** is the 20% darker color. If you saturate the color by 10%, you get **42.8782, 64.2294, 80.6580**, and if you desaturate by 10%, it is **43.3786, 64.4716, 81.3936**.

# Distribution



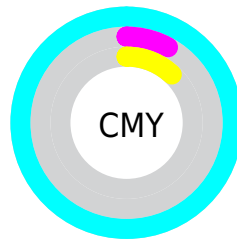
- Red (0%)
- Green (92%)
- Blue (88%)



- Red (0%)
- Yellow (47%)
- Blue (92%)



- Cyan (100%)
- Magenta (0%)
- Yellow (4%)
- Black (8%)



- Cyan (100%)
- Magenta (8%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.8774, 64.2275, 80.6583 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 42.8774, 64.2275, 80.6583 by changing the saturation by 10% instead.



42.8774, 64.2275,  
80.6583

42.8774, 64.2275,  
80.6583

349.0374,  
440.0107, 516.9137

29.9830, 46.8350,  
59.7309

78.7827, 110.9385,  
136.1106

19.9737, 32.9052,  
42.7779

102.5243,  
141.0258, 171.4726

12.4841, 22.0538,  
29.3808

130.6124,  
176.1134, 212.4831

7.1488, 13.8965,  
19.1210

163.4123,  
216.5858, 259.5608

3.6025, 8.0487,  
11.5800

201.2895,  
262.8273, 313.1242

1.4798, 4.1261,  
6.3394

244.6091,

0.3120, 1.7444,

315.2224, 373.5918

2.9804

293.7366,  
374.1554, 441.3821

■ 0.0000, 0.4521,  
1.0846

■ 0.0000, 0.0000,  
0.0000

■ 42.8774, 64.2275,  
80.6583

■ 42.8774, 64.2275,  
80.6583

■ 42.8782, 64.2294,  
80.6580

■ 43.3786, 64.4716,  
81.3936

■ 44.3174, 64.9397,  
82.1522

■ 45.8339, 65.7056,  
82.9419

■ 48.0091, 66.8110,  
83.7667

■ 50.9114, 68.2910,  
84.6297

■ 54.6003, 70.1765,  
85.5337

■ 59.1293, 72.4951,  
86.4813

■ 64.5474, 75.2718,  
87.4746

■ 70.8996, 78.5300,  
88.5159

# Harmonies

## Analogous

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



43.6257, 64.2275, 51.5472



42.8774, 64.2275, 80.6583



46.5406, 64.2275, 115.2093

# Triad

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



42.8774, 64.2275, 80.6583



75.2931, 64.2275, 125.7944



68.4062, 64.2275, 27.7816

# Complementary

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



42.8774, 64.2275, 80.6583



33.9886, 17.5163, 1.8785

# 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.



78.2905, 64.2275, 38.4106



42.8774, 64.2275, 80.6583



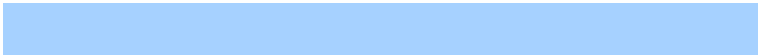
82.5787, 64.2275, 92.2406

# Square

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



42.8774, 64.2275, 80.6583



64.6847, 64.2275, 145.8817



83.7357, 64.2275, 60.2030



57.5470, 64.2275, 26.3497



# Rectangle

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



42.8774, 64.2275, 80.6583



51.2753, 64.2275, 134.6517



83.7357, 64.2275, 60.2030



71.9859, 64.2275, 30.2087

# Sweetspot

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



42.8793, 64.2299, 80.6598



71.7629, 88.0554, 105.0849



29.5723, 58.9242, 9.8165



14.8352, 18.5786, 22.3867



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.



42.8793, 64.2299, 80.6598



52.1040, 78.0576, 97.9865



22.6670, 21.5700, 80.8133



15.4882, 17.1101, 19.2538



24.1069, 36.0972, 45.3893



1.9016, 2.8380, 3.6097



# Inverse Universe

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



33.9886, 17.5163, 1.8785



41.2998, 21.2839, 2.2451



39.0188, 27.6644, 3.2849



15.0916, 15.0645, 15.7675



19.1102, 9.8468, 1.1157

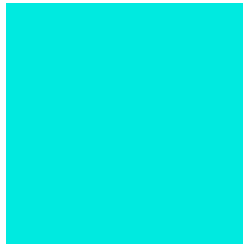


1.5098, 0.7769, 0.1361



# Previews

## White Background



This preview shows how the XYZ color 42.8774, 64.2275, 80.6583 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

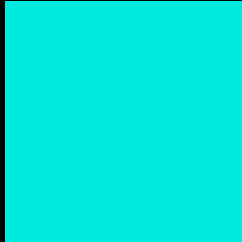
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.8774, 64.2275, 80.6583 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

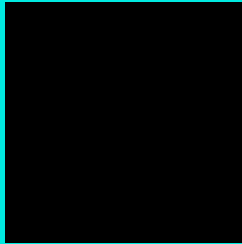
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

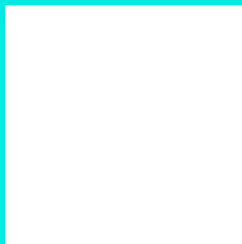
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.8774, 64.2275, 80.6583**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.8774, 64.2275, 80.6583.



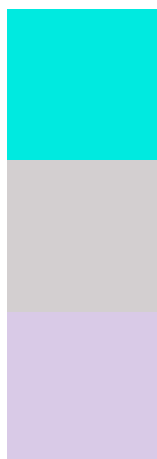
This preview shows how white text looks on a background with the XYZ color 42.8774, 64.2275,



# 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

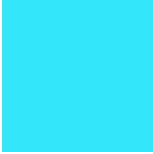
42.8774, 64.2275, 80.6583

### Protanopia

60.5620, 63.0286, 68.6483

### Deuteranopia

64.1596, 62.7623, 84.3341



## **Tritanopia**

46.7609, 64.1370, 99.5376

# Trichromacy



## Original Color

42.8774, 64.2275, 80.6583



## Protanomaly

46.7820, 59.5491, 72.6468



## Deuteranomaly

48.5314, 59.0978, 82.2479



## Tritanomaly

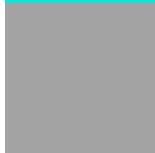
44.8998, 63.7502, 92.3766

# Monochromacy



## Original Color

42.8774, 64.2275, 80.6583



## Achromatopsia

34.8123, 36.6253, 39.8849



## Achromatomaly

32.6635, 42.8410, 52.4465

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.8774, 64.2275, 80.6583 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, 234, 224)` looks like.

```
.text, #text, p{  
    color:rgb(0, 234, 224)  
}
```

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, 234, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 234, 224) }
```

## Border

The CSS property to change the border of an element to XYZ 42.8774, 64.2275, 80.6583 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, 234, 224) }
```



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

```
.border{ border-color:rgb(0, 234, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 234, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 234, 224); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 234, 224);  
box-shadow:4px 4px 4px 4px rgb(0, 234,  
224) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.8774, 64.2275, 80.6583 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 234, 224) }
```

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

```
.background{ background-color: rgb(0, 234,  
224) }
```

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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