

# Converting Colors

XYZ(33.8871, 57.3861, 86.5539)

Have a look what the booklet for  
XYZ(33.8871, 57.3861, 86.5539)  
contains.

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# Color

**XYZ(42.7273, 61.9218,  
86.7909)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00E5E9
RGB	0, 229, 233
RGB Percent	0%, 90%, 91%
CMY	0.9997, 0.1019, 0.0863
CMYK	1.00, 0.02, 0.00, 0.09
HSL	181°, 100%, 46%
HSV	181°, 100%, 91%
XYZ	42.7273, 61.9218, 86.7909
YIQ	160.9850, -137.7680, -47.3040

# Conversions

## Conversions Part 2

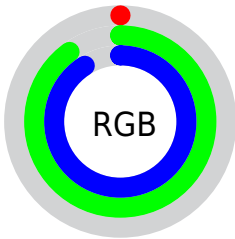
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 115, 233
Decimal	58857
CIELab	82.87, -43.15, -14.97
CIELCh	83, 45.671, 199.135
Yxy	61.9218, 0.2232, 0.3235
Android (android.graphics.Color)	4278248937 (0xFF00E5E9)
YUV	160.9850, 35.5034, -141.1838
Hunter-Lab	78.6904, -40.7863, -10.3101

# Details

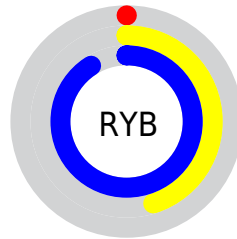
The XYZ color **42.7273, 61.9218, 86.7909** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **33.6492, 17.4122, 1.5892**, and the grayscale version is **33.7651, 35.5235, 38.6851**.

A 20% lighter version of the original color is **60.7494, 82.3174, 107.2948**, and **22.8794, 33.0615, 46.7706** is the 20% darker color. If you saturate the color by 10%, you get **42.7281, 61.9231, 86.7923**, and if you desaturate by 10%, it is **43.2009, 62.3318, 86.8462**.

# Distribution



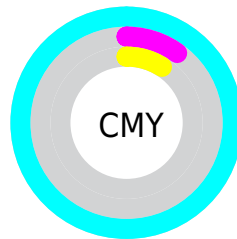
- Red (0%)
- Green (90%)
- Blue (91%)



- Red (0%)
- Yellow (45%)
- Blue (91%)



- Cyan (100%)
- Magenta (2%)
- Yellow (0%)
- Black (9%)



- Cyan (100%)
- Magenta (10%)
- Yellow (9%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7273, 61.9218, 86.7909 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 42.7273, 61.9218, 86.7909 by changing the saturation by 10% instead.





 42.7273, 61.9218,  
86.7909


 42.7273, 61.9218,  
86.7909

348.4296,  
431.6458, 537.8339


 29.8648, 44.9695,  
64.7635


 78.5575, 107.6125,  
144.7690

 19.8836, 31.4334,  
46.8192


 102.2558,  
137.1197, 181.5567


 12.4182, 20.9291,  
32.5395


 130.2969,  
171.5807, 224.1017

 7.1034, 13.0722,  
21.5057

 163.0460,  
211.3798, 272.8225

 3.5737, 7.4783,  
13.2993

 200.8684,  
256.9015, 328.1375

 1.4639, 3.7630,  
7.5018

244.1296,

 0.3011, 1.5419,

308.5301, 390.4654

3.6947

293.1949,  
366.6501, 460.2247

■ 0.0000, 0.3179,  
1.4594

■ 0.0000, 0.0000,  
0.1874

■ 42.7273, 61.9218,  
86.7909

■ 42.7273, 61.9218,  
86.7909

■ 42.7281, 61.9231,  
86.7923

■ 43.2009, 62.3318,  
86.8462

■ 44.1071, 62.9638,  
86.9205

■ 45.5848, 63.8908,  
87.0215

■ 47.7142, 65.1541,  
87.1531

■ 50.5627, 66.7886,  
87.3185

■ 54.1895, 68.8246,  
87.5203

■ 58.6475, 71.2895,  
87.7611

■ 63.9849, 74.2082,  
88.0432

■ 70.2464, 77.6037,  
88.3685

# Harmonies

## Analogous

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



42.1594, 61.9218, 57.7145



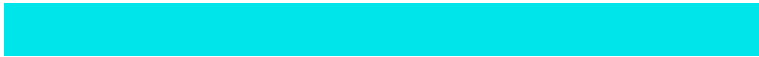
42.7273, 61.9218, 86.7909



47.3224, 61.9218, 117.2678

# Triad

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



42.7273, 61.9218, 86.7909



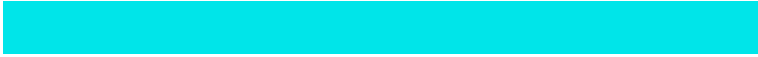
74.3554, 61.9218, 109.4566



62.4941, 61.9218, 26.9779

# Complementary

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



42.7273, 61.9218, 86.7909



33.6492, 17.4122, 1.5892

# 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.



72.1234, 61.9218, 34.1834



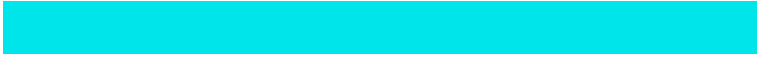
42.7273, 61.9218, 86.7909



79.4617, 61.9218, 78.1619

# Square

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



42.7273, 61.9218, 86.7909



65.2776, 61.9218, 132.6706



78.6021, 61.9218, 51.1736

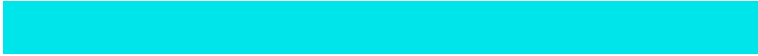


52.8678, 61.9218, 28.0910



# Rectangle

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



42.7273, 61.9218, 86.7909



52.3694, 61.9218, 131.7934



78.6021, 61.9218, 51.1736



65.8548, 61.9218, 28.4045

# Sweetspot

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



42.7292, 61.9241, 86.7924



71.8676, 87.4293, 107.6955



29.1618, 58.2877, 9.8270



14.8607, 18.4258, 23.0232



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.



42.7292, 61.9241, 86.7924



52.4295, 75.9790, 106.5098



20.5752, 17.6161, 79.4077



15.4942, 17.0749, 19.4014



24.2545, 35.1561, 49.2504



1.9117, 2.7748, 3.8697



# Inverse Universe

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



47.7488, 22.9826, 76.0505



58.5932, 28.2013, 93.3107



40.3716, 30.8571, 3.8300



15.7030, 15.3091, 18.9874



27.0979, 13.0418, 43.1782

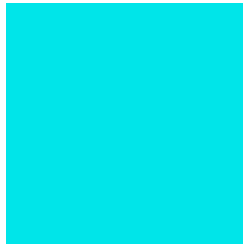


2.1314, 1.0255, 3.4094



# Previews

## White Background



This preview shows how the XYZ color 42.7273, 61.9218, 86.7909 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

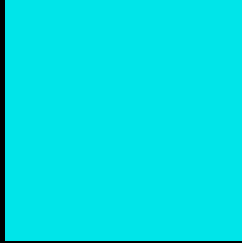
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.7273, 61.9218, 86.7909 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

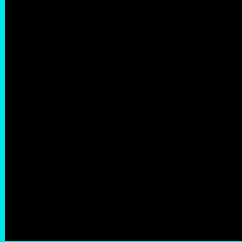
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

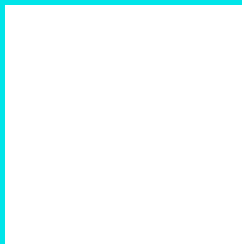
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.7273, 61.9218, 86.7909**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7273, 61.9218, 86.7909.



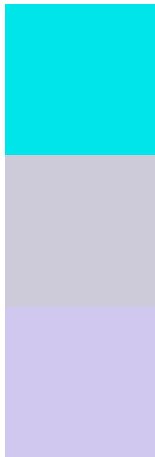
This preview shows how white text looks on a background with the XYZ color 42.7273, 61.9218,



# 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

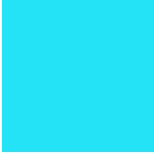
42.7273, 61.9218, 86.7909

### Protanopia

59.0572, 60.7008, 74.2494

### Deuteranopia

62.2467, 60.9504, 90.1452



## **Tritanopia**

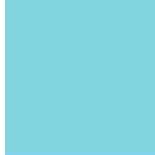
44.8666, 61.9853, 96.7884

# Trichromacy



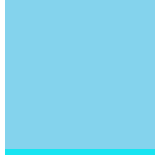
## Original Color

42.7273, 61.9218, 86.7909



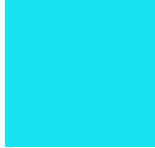
## Protanomaly

46.0687, 57.1605, 78.4170



## Deuteranomaly

48.0960, 57.6085, 88.7054



## Tritanomaly

43.9973, 62.0319, 92.8735

# Monochromacy



## Original Color

42.7273, 61.9218, 86.7909



## Achromatopsia

33.8758, 35.6400, 38.8120



## Achromatomaly

32.0080, 41.5304, 53.3429

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7273, 61.9218, 86.7909 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, 229, 233)` looks like.

```
.text, #text, p{  
    color:rgb(0, 229, 233)  
}
```

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, 229, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 229, 233) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7273, 61.9218, 86.7909 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, 229, 233) }
```



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

```
.border{ border-color:rgb(0, 229, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 229, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 229, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 229, 233);  
box-shadow:4px 4px 4px 4px rgb(0, 229,  
233) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7273, 61.9218, 86.7909 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 229, 233) }
```

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

```
.background{ background-color: rgb(0, 229,  
233) }
```

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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