

# Converting Colors

XYZ(38.2046, 67.3118, 85.3350)

Have a look what the booklet for  
XYZ(38.2046, 67.3118, 85.3350)  
contains.

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# Color

**XYZ(47.4036, 72.1787,  
85.5622)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00F7E5
RGB	0, 247, 229
RGB Percent	0%, 97%, 90%
CMY	0.9998, 0.0314, 0.1020
CMYK	1.00, 0.00, 0.07, 0.03
HSL	176°, 100%, 48%
HSV	176°, 100%, 97%
XYZ	47.4036, 72.1787, 85.5622
YIQ	171.0950, -141.4340, -57.9620

# Conversions

## Conversions Part 2

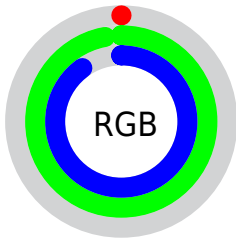
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 128, 247
Decimal	63461
CIELab	88.05, -51.99, -5.16
CIELCh	88, 52.250, 185.663
Yxy	72.1787, 0.2311, 0.3518
Android (android.graphics.Color)	4278253541 (0xFF00F7E5)
YUV	171.0950, 28.5472, -150.0503
Hunter-Lab	84.9580, -49.0799, -0.2410

# Details

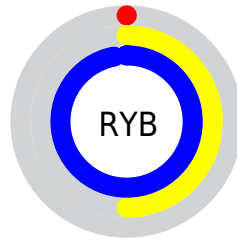
The XYZ color **47.4036, 72.1787, 85.5622** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **38.4694, 19.8199, 2.3728**, and the grayscale version is **38.6776, 40.6919, 44.3135**.

A 20% lighter version of the original color is **61.1461, 82.5219, 107.3133**, and **26.0534, 39.8829, 46.3694** is the 20% darker color. If you saturate the color by 10%, you get **47.4044, 72.1808, 85.5609**, and if you desaturate by 10%, it is **48.0527, 72.4858, 86.9136**.

# Distribution



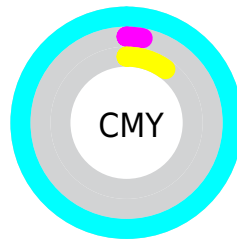
- Red (0%)
- Green (97%)
- Blue (90%)



- Red (0%)
- Yellow (50%)
- Blue (97%)



- Cyan (100%)
- Magenta (0%)
- Yellow (7%)
- Black (3%)




- Cyan (100%)
- Magenta (3%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.4036, 72.1787, 85.5622 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 47.4036, 72.1787, 85.5622 by changing the saturation by 10% instead.





 47.4036, 72.1787,  
85.5622


 47.4036, 72.1787,  
85.5622

367.0453,  
468.1634, 533.6795

 33.5641, 53.3047,  
63.7532


 85.5308, 122.3106,  
143.0395


 22.7202, 38.0460,  
46.0059


 110.5493,  
154.3372, 179.5449


 14.5066, 26.0184,  
31.9018


 140.0248,  
191.5168, 221.7862

 8.5579, 16.8374,  
21.0223

 174.3227,  
234.2338, 270.1819

 4.5088, 10.1186,  
12.9489

 213.8083,  
282.8725, 325.1505

 1.9938, 5.4777,  
7.2630

258.8471,

 0.6305, 2.5302,

337.8174, 387.1106

3.5462

309.8043,  
399.4529, 456.4808

■ 0.0000, 0.8917,  
1.3799

■ 0.0000, 0.0000,  
0.1259

■ 47.4036, 72.1787,  
85.5622

■ 47.4036, 72.1787,  
85.5622

■ 47.4044, 72.1808,  
85.5609

■ 48.0527, 72.4858,  
86.9136

■ 49.2020, 73.0487,  
88.3004

■ 51.0074, 73.9496,  
89.7316

■ 53.5619, 75.2364,  
91.2116

■ 56.9436, 76.9494,  
92.7441

■ 61.2207, 79.1235,  
94.3323

■ 66.4542, 81.7905,  
95.9791

■ 72.6999, 84.9789,  
97.6872

■ 80.0094, 88.7154,  
99.4590

# Harmonies

## Analogous

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



48.9949, 72.1787, 53.5530



47.4036, 72.1787, 85.5622



50.9095, 72.1787, 125.8055

# Triad

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



47.4036, 72.1787, 85.5622



83.5529, 72.1787, 148.6208



78.9664, 72.1787, 31.1599

# Complementary

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



47.4036, 72.1787, 85.5622



38.4694, 19.8199, 2.3728

# 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.



89.9853, 72.1787, 44.9701



47.4036, 72.1787, 85.5622



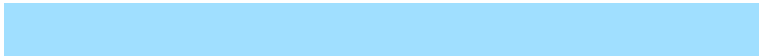
92.8500, 72.1787, 110.4204

# Square

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



47.4036, 72.1787, 85.5622



70.9967, 72.1787, 168.6378



95.3356, 72.1787, 72.0079



66.2650, 72.1787, 28.1499



# Rectangle

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



47.4036, 72.1787, 85.5622



55.9488, 72.1787, 150.0183



95.3356, 72.1787, 72.0079



83.0359, 72.1787, 34.4332

# Sweetspot

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



47.4057, 72.1814, 85.5639



71.4000, 87.9102, 103.1743



33.5638, 66.6794, 11.1030



14.7469, 18.5433, 21.9219



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.



47.4057, 72.1814, 85.5639



50.9601, 77.6001, 91.9628



26.7795, 26.6955, 91.7400



16.9415, 18.7357, 20.9763



25.0928, 38.1819, 45.3698



2.2207, 3.3619, 4.0682



# Inverse Universe

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



38.4694, 19.8199, 2.3728



41.3541, 21.3056, 2.5306



43.2048, 29.4657, 3.4119



16.5481, 16.5021, 17.3671



20.3625, 10.4885, 1.3516

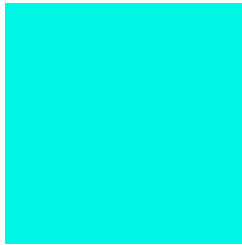


1.8064, 0.9285, 0.2068



# Previews

## White Background



This preview shows how the XYZ color 47.4036, 72.1787, 85.5622 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

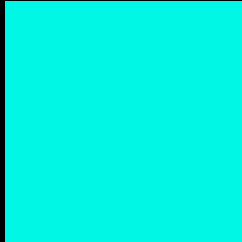
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.4036, 72.1787, 85.5622 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

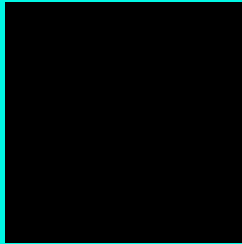
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 47.4036, 72.1787, 85.5622**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.4036, 72.1787, 85.5622.



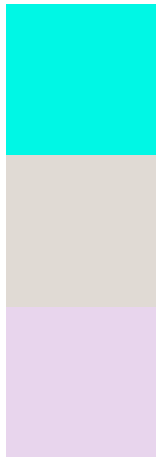
This preview shows how white text looks on a background with the XYZ color 47.4036, 72.1787,



# 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

47.4036, 72.1787, 85.5622

### Protanopia

67.6955, 70.7436, 72.3743

### Deuteranopia

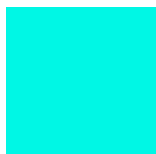
72.3590, 70.8587, 89.9841



## Tritanopia

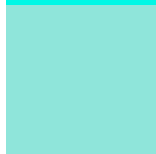
55.0549, 71.6841, 105.5424

# Trichromacy



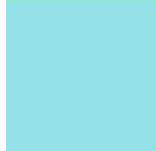
## Original Color

47.4036, 72.1787, 85.5622



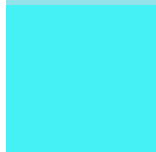
## Protanomaly

52.0019, 66.9402, 76.5096



## Deuteranomaly

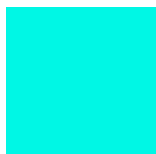
53.9892, 66.0868, 87.7524



## Tritanomaly

50.6156, 70.8665, 98.1997

# Monochromacy



## Original Color

47.4036, 72.1787, 85.5622



## Achromatopsia

38.7082, 40.7240, 44.3485



## Achromatomaly

36.2445, 47.9038, 57.2052

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.4036, 72.1787, 85.5622 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, 247, 229)` looks like.

```
.text, #text, p{  
    color:rgb(0, 247, 229)  
}
```

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, 247, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 247, 229) }
```

## Border

The CSS property to change the border of an element to XYZ 47.4036, 72.1787, 85.5622 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, 247, 229) }
```



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

```
.border{ border-color:rgb(0, 247, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 247, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 247, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 247, 229);  
box-shadow:4px 4px 4px 4px rgb(0, 247,  
229) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.4036, 72.1787, 85.5622 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 247, 229) }
```

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

```
.background{ background-color: rgb(0, 247,  
229) }
```

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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