

# Converting Colors

XYZ(47.6119, 69.8367, 80.9957)

Have a look what the booklet for  
XYZ(47.6119, 69.8367, 80.9957)  
contains.

<b>XYZ(47.4471, 69.6160, 80.7486)</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(47.4471, 69.6160,  
80.7486)**

# Conversions

## Conversions Part 1

Format	Color
Hex	48F1DF
RGB	72, 241, 223
RGB Percent	28%, 95%, 87%
CMY	0.7176, 0.0549, 0.1255
CMYK	0.70, 0.00, 0.07, 0.05
HSL	174°, 86%, 61%
HSV	174°, 70%, 95%
XYZ	47.4471, 69.6160, 80.7486
YIQ	188.4170, -94.9460, -41.4260

# Conversions

## Conversions Part 2

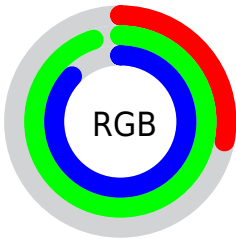
Format	Color
<a href="#">RYB</a>	<a href="#">72, 161, 241</a>
Decimal	<a href="#">4780511</a>
CIELab	<a href="#">86.81, -46.50, -3.78</a>
CIELCh	<a href="#">87, 46.654, 184.643</a>
Yxy	<a href="#">69.6160, 0.2399, 0.3519</a>
Android (android.graphics.Color)	<a href="#">4282970591 (0xFF48F1DF)</a>
YUV	<a href="#">188.4170, 17.0494, -102.0977</a>
Hunter-Lab	<a href="#">83.4362, -44.5070, 1.0252</a>

# Details

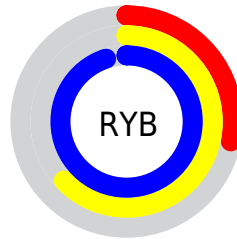
The XYZ color **47.4471, 69.6160, 80.7486** is a light color, and the websafe version is hex **33FFFF**. The color can be described as light washed cyan. A complement of this color would be **40.4408, 24.0758, 12.1911**, and the grayscale version is **47.9843, 50.4832, 54.9762**.

A 20% lighter version of the original color is **64.9653, 84.4908, 107.4921**, and **24.2084, 37.1081, 42.9325** is the 20% darker color. If you saturate the color by 10%, you get **45.6470, 68.7293, 78.8725**, and if you desaturate by 10%, it is **49.9602, 70.8729, 82.6885**.

# Distribution



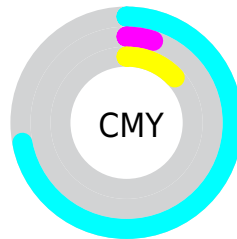
- Red (28%)
- Green (95%)
- Blue (87%)



- Red (28%)
- Yellow (63%)
- Blue (95%)



- Cyan (70%)
- Magenta (0%)
- Yellow (7%)
- Black (5%)



- Cyan (72%)
- Magenta (5%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.4471, 69.6160, 80.7486 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 47.4471, 69.6160, 80.7486 by changing the saturation by 10% instead.





 47.4471, 69.6160,  
80.7486


 47.4471, 69.6160,  
80.7486


367.2155,  
459.2006, 517.2252


 33.5987, 51.2135,  
59.8048


 85.5953, 118.6610,  
136.2386


 22.7469, 36.3786,  
42.8370


 110.6258,  
150.0723, 171.6219

 14.5264, 24.7267,  
29.4268


 140.1143,  
186.5887, 212.6554

 8.5718, 15.8736,  
19.1556

 174.4263,  
228.5945, 259.7576

 4.5178, 9.4347,  
11.6048

213.9271,  
276.4743, 313.3472

 1.9991, 5.0258,  
6.3559

258.9820,

 0.6334, 2.2624,

330.6122, 373.8427

2.9904

309.9563,  
391.3929, 441.6625

■ 0.0000, 0.7537,  
1.0897

■ 0.0000, 0.0000,  
0.0000

■ 47.4471, 69.6160,  
80.7486

■ 47.4471, 69.6160,  
80.7486

■ 45.6470, 68.7293,  
78.8725

■ 49.9602, 70.8729,  
82.6885


■ 44.4661, 68.1596,  
77.0512


■ 53.2539, 72.5299,  
84.6910


■ 43.7647, 67.8361,  
75.3003

■ 57.3943, 74.6229,  
86.7607


■ 62.4393, 77.1815,  
88.9004

 68.4412, 80.2329,  
91.1129

 75.4487, 83.8020,  
93.4004

 83.5070, 87.9122,  
95.7651

 88.9557, 90.6765,  
98.0360

 89.3474, 90.8332,  
100.0985

# Harmonies

## Analogous

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



49.0224, 69.6160, 52.9482



47.4471, 69.6160, 80.7486



50.4205, 69.6160, 115.1682

# Triad

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



47.4471, 69.6160, 80.7486



78.7732, 69.6160, 136.4738



75.5276, 69.6160, 33.5582

# Complementary

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



47.4471, 69.6160, 80.7486



40.4408, 24.0758, 12.1911

# 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.



84.8938, 69.6160, 46.6131



47.4471, 69.6160, 80.7486



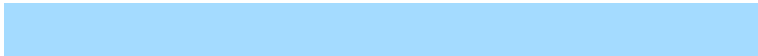
86.9069, 69.6160, 104.4303

# Square

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



47.4471, 69.6160, 80.7486



67.8740, 69.6160, 152.4749



89.2604, 69.6160, 71.0578



64.4907, 69.6160, 30.4255

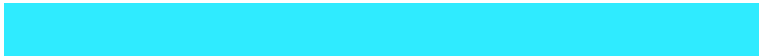


# Rectangle

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



47.4471, 69.6160, 80.7486



54.7962, 69.6160, 135.8413



89.2604, 69.6160, 71.0578



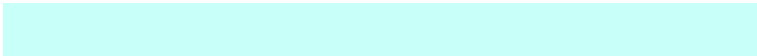
79.0132, 69.6160, 36.7151

# Sweetspot

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



47.4491, 69.6187, 80.7502



77.1136, 90.8580, 103.3375



37.0127, 65.6420, 16.8520



16.0833, 19.2326, 21.9681



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.



47.4491, 69.6187, 80.7502



51.2579, 77.8239, 88.8000



34.1200, 38.8673, 88.9258



16.1706, 17.8983, 19.9211



23.7622, 36.7969, 40.9921



1.9974, 3.0694, 3.5188



# Inverse Universe

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



40.4408, 24.0758, 12.1911



42.9406, 23.1979, 7.0080



46.3628, 37.0013, 10.8310



15.8412, 15.7862, 16.7201



19.7938, 10.1900, 1.5650

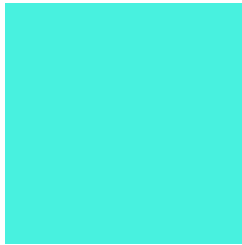


1.6692, 0.8567, 0.2490



# Previews

## White Background



This preview shows how the XYZ color 47.4471, 69.6160, 80.7486 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

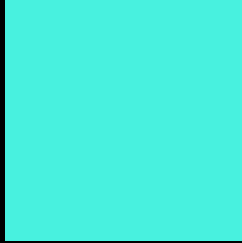
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.4471, 69.6160, 80.7486 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

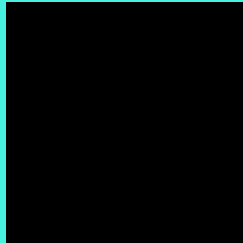
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

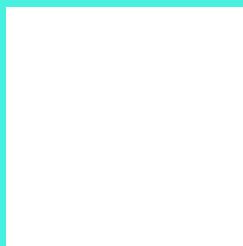
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 47.4471, 69.6160, 80.7486**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.4471, 69.6160, 80.7486.



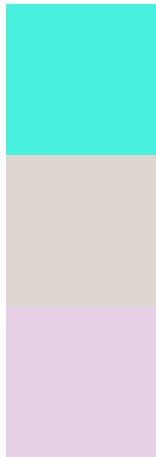
This preview shows how white text looks on a background with the XYZ color 47.4471, 69.6160,



# 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

47.4471, 69.6160, 80.7486

### Protanopia

65.5044, 68.5271, 69.4491

### Deuteranopia

69.7165, 68.1371, 84.3402



## Tritanopia

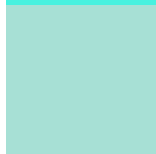
52.4591, 69.4862, 105.2550

# Trichromacy



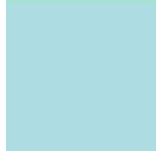
## Original Color

47.4471, 69.6160, 80.7486



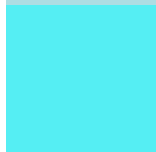
## Protanomaly

54.6022, 66.3309, 72.8761



## Deuteranomaly

56.9552, 66.1432, 82.4381



## Tritanomaly

50.4985, 69.5514, 95.5572

# Monochromacy



## Original Color

47.4471, 69.6160, 80.7486



## Achromatopsia

47.7994, 50.2886, 54.7643



## Achromatomaly

44.7095, 54.9537, 63.5090

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.4471, 69.6160, 80.7486 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(72, 241, 223)` looks like.

```
.text, #text, p{  
    color:rgb(72, 241, 223)  
}
```

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(72, 241, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 241, 223) }
```

## Border

The CSS property to change the border of an element to XYZ 47.4471, 69.6160, 80.7486 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(72, 241, 223) }
```



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

```
.border{ border-color:rgb(72, 241, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 241, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 241, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 241, 223);  
box-shadow:4px 4px 4px 4px rgb(72, 241,  
223) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.4471, 69.6160, 80.7486 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 241, 223) }
```

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

```
.background{ background-color: rgb(72, 241,  
223) }
```

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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