

Converting Colors

XYZ(47.0331, 68.0873, 90.2466)

Have a look what the booklet for
XYZ(47.0331, 68.0873, 90.2466)
contains.

XYZ(46.8416, 67.7860, 89.9721)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(46.8416, 67.7860,
89.9721)**

Conversions

Conversions Part 1

Format	Color
Hex	2EEEEC
RGB	46, 238, 236
RGB Percent	18%, 93%, 93%
CMY	0.8195, 0.0667, 0.0745
CMYK	0.81, 0.00, 0.01, 0.07
HSL	179°, 85%, 56%
HSV	179°, 81%, 93%
XYZ	46.8416, 67.7860, 89.9721
YIQ	180.3640, -113.7900, -41.3260

Conversions

Conversions Part 2

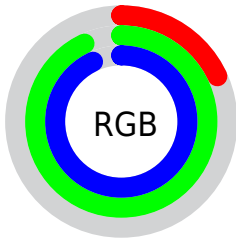
Format	Color
RYB	46, 143, 238
Decimal	3075820
CIELab	85.90, -44.28, -11.99
CIELCh	86, 45.873, 195.151
Yxy	67.7860, 0.2289, 0.3313
Android (android.graphics.Color)	4281265900 (0xFF2EEEEC)
YUV	180.3640, 27.4285, -117.8372
Hunter-Lab	82.3323, -42.5268, -7.1591

Details

The XYZ color **46.8416, 67.7860, 89.9721** 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 **36.7727, 20.3468, 4.7877**, and the grayscale version is **43.4827, 45.7472, 49.8187**.

A 20% lighter version of the original color is **62.7121, 83.3292, 107.3866**, and **24.7621, 36.3430, 48.8898** is the 20% darker color. If you saturate the color by 10%, you get **46.0158, 67.3659, 89.7469**, and if you desaturate by 10%, it is **48.2649, 68.5171, 90.2286**.

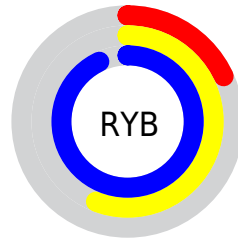
Distribution



Red (18%)

Green (93%)

Blue (93%)



Red (18%)

Yellow (56%)

Blue (93%)

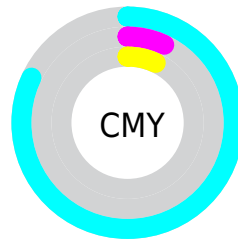


Cyan (81%)

Magenta (0%)

Yellow (1%)

Black (7%)



Cyan (82%)


Magenta (7%)


Yellow (7%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.8416, 67.7860, 89.9721 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 46.8416, 67.7860, 89.9721 by changing the saturation by 10% instead.


 46.8416, 67.7860,
89.9721

 46.8416, 67.7860,
89.9721


364.8414,
452.7374, 548.5079

 33.1179, 49.7237,
67.3839


 84.6973, 116.0459,
149.2348


 22.3764, 35.1939,
48.9331


 109.5600,
147.0123, 186.7464

 14.2519, 23.8123,
34.2012


 138.8664,
183.0489, 230.0696

 8.3789, 15.1944,
22.7696

 172.9819,
224.5399, 279.6229

 4.3922, 8.9559,
14.2198

212.2717,
271.8699, 335.8248

 1.9263, 4.7125,
8.1332

257.1014,

 0.5921, 2.0796,

325.4232, 399.0939

4.0913

307.8361,
385.5843, 469.8488

■ 0.0000, 0.6531,
1.6756

■ 0.0000, 0.0000,
0.3439

■ 46.8416, 67.7860,
89.9721

■ 46.8416, 67.7860,
89.9721

■ 46.0158, 67.3659,
89.7469


■ 48.2649, 68.5171,
90.2286


■ 45.6464, 67.1794,
89.5542


■ 50.3655, 69.5958,
90.5155


■ 53.2172, 71.0617,
90.8379


■ 56.8827, 72.9472,
91.1985

 61.4184, 75.2812,
91.6002

 66.8752, 78.0901,
92.0453

 73.3006, 81.3983,
92.5359

 80.7384, 85.2284,
93.0742

 87.2827, 88.5979,
93.5709

Harmonies

Analogous

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



46.8194, 67.7860, 59.9603



46.8416, 67.7860, 89.9721



51.2147, 67.7860, 122.8509

Triad

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



46.8416, 67.7860, 89.9721



79.8262, 67.7860, 122.5492



69.7418, 67.7860, 30.8417

Complementary

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



46.8416, 67.7860, 89.9721



36.7727, 20.3468, 4.7877

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.



79.7397, 67.7860, 39.9387



46.8416, 67.7860, 89.9721



85.9775, 67.7860, 89.6375

Square

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



46.8416, 67.7860, 89.9721



69.8499, 67.7860, 144.8575



85.9442, 67.7860, 59.7050



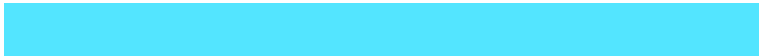
59.2953, 67.7860, 30.8857

Rectangle

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



46.8416, 67.7860, 89.9721



56.3122, 67.7860, 139.6798



85.9442, 67.7860, 59.7050



73.2896, 67.7860, 32.7941

Sweetspot

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



46.8436, 67.7885, 89.9737



75.9043, 90.1419, 107.4686



32.3462, 62.0069, 12.8504



15.7600, 19.0436, 22.9630



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.



46.8436, 67.7885, 89.9737



53.4933, 78.6244, 104.8023



26.7183, 27.0698, 84.7083



16.2399, 17.9260, 20.2861



25.4686, 37.4794, 49.9778



2.1210, 3.1189, 4.1697

Inverse Universe

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



36.7727, 20.3468, 4.7877



41.3791, 21.4485, 2.2528



44.9599, 36.7858, 7.3175



15.7795, 15.7615, 16.3952



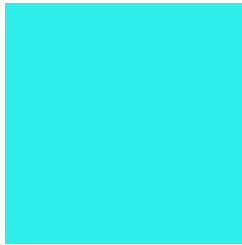
19.6820, 10.1452, 0.9758



1.6397, 0.8449, 0.0935

Previews

White Background



This preview shows how the XYZ color 46.8416, 67.7860, 89.9721 looks on a white background.

Color Contrast Check

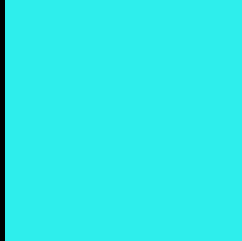
Large Text (above 18pt) WCAG AA × Fail

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 46.8416, 67.7860, 89.9721 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

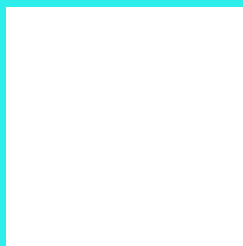
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 46.8416, 67.7860, 89.9721

Background



This preview shows how black text looks on a background with the XYZ color 46.8416, 67.7860, 89.9721.

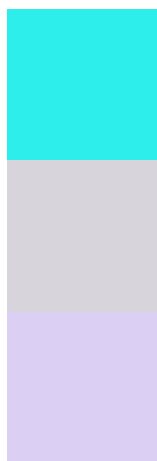


This preview shows how white text looks on a background with the XYZ color 46.8416, 67.7860,

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

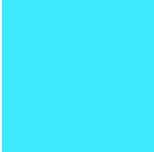
46.8416, 67.7860, 89.9721

Protanopia

64.4861, 66.7013, 77.1860

Deuteranopia

67.7039, 66.1568, 93.9952



Tritanopia

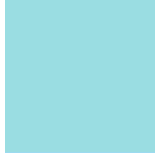
49.5843, 67.5966, 104.2000

Trichromacy



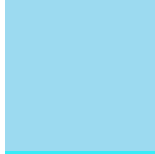
Original Color

46.8416, 67.7860, 89.9721



Protanomaly

52.9103, 64.0739, 81.5303



Deuteranomaly

54.5099, 63.5020, 91.8222



Tritanomaly

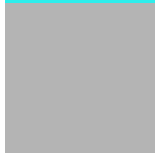
48.4148, 67.5471, 98.4818

Monochromacy



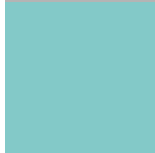
Original Color

46.8416, 67.7860, 89.9721



Achromatopsia

43.3819, 45.6411, 49.7032



Achromatomaly

40.6720, 50.7687, 62.2993

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.8416, 67.7860, 89.9721 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(46, 238, 236)` looks like.

```
.text, #text, p{  
    color:rgb(46, 238, 236)  
}
```

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(46, 238, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 238, 236) }
```

Border

The CSS property to change the border of an element to XYZ 46.8416, 67.7860, 89.9721 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(46, 238, 236) }
```


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

```
.border{ border-color:rgb(46, 238, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 238, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 238, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 238, 236);  
box-shadow:4px 4px 4px 4px rgb(46, 238,  
236) }
```

Background

The CSS property to change the background color of an element to XYZ 46.8416, 67.7860, 89.9721 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 238, 236) }
```

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

```
.background{ background-color: rgb(46, 238,  
236) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor