

Converting Colors

XYZ(46.8875, 68.6129, 87.1654)

Have a look what the booklet for
XYZ(46.8875, 68.6129, 87.1654)
contains.

XYZ(46.9445, 68.7747, 87.1446)	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(46.9445, 68.7747,
87.1446)**

Conversions

Conversions Part 1

Format	Color
Hex	30F0E8
RGB	48, 240, 232
RGB Percent	19%, 94%, 91%
CMY	0.8117, 0.0588, 0.0902
CMYK	0.80, 0.00, 0.03, 0.06
HSL	177°, 86%, 56%
HSV	177°, 80%, 94%
XYZ	46.9445, 68.7747, 87.1446
YIQ	181.6800, -111.8640, -43.1920

Conversions

Conversions Part 2

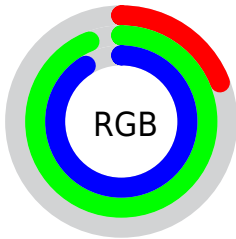
Format	Color
RYB	48, 146, 240
Decimal	3207400
CIELab	86.39, -46.11, -9.15
CIELCh	86, 47.014, 191.225
Yxy	68.7747, 0.2314, 0.3390
Android (android.graphics.Color)	4281397480 (0xFF30F0E8)
YUV	181.6800, 24.8078, -117.2374
Hunter-Lab	82.9305, -44.0849, -4.2514

Details

The XYZ color **46.9445, 68.7747, 87.1446** 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 **37.7082, 20.9268, 5.7956**, and the grayscale version is **44.2059, 46.5081, 50.6473**.

A 20% lighter version of the original color is **62.8633, 83.4071, 107.3937**, and **24.7700, 37.0016, 46.9108** is the 20% darker color. If you saturate the color by 10%, you get **45.9622, 68.2862, 86.3605**, and if you desaturate by 10%, it is **48.5431, 69.5839, 87.9649**.

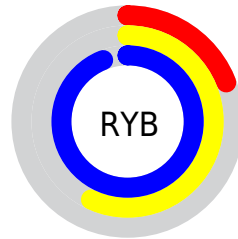
Distribution



Red (19%)

Green (94%)

Blue (91%)



Red (19%)

Yellow (57%)

Blue (94%)

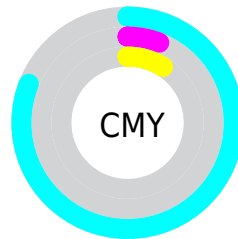


Cyan (80%)

Magenta (0%)

Yellow (3%)

Black (6%)



Cyan (81%)


Magenta (6%)

Yellow (9%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 46.9445, 68.7747, 87.1446 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 46.9445, 68.7747, 87.1446 by changing the saturation by 10% instead.


 46.9445, 68.7747,
87.1446


 46.9445, 68.7747,
87.1446


365.2456,
456.2360, 539.0264

 33.1995, 50.5282,
65.0546


 84.8500, 117.4597,
145.2663


 22.4393, 35.8333,
47.0537


 109.7413,
148.6671, 182.1351

 14.2985, 24.3055,
32.7235


 139.0787,
184.9635, 224.7672

 8.4116, 15.5604,
21.6453

 173.2277,
226.7335, 273.5811

 4.4135, 9.2136,
13.4007

212.5534,
274.3613, 328.9955

 1.9386, 4.8808,
7.5711

257.4215,

 0.5991, 2.1775,

328.2314, 391.4288

3.7379

308.1970,
388.7281, 461.2996

■ 0.0000, 0.7077,
1.4827

■ 0.0000, 0.0000,
0.2050

■ 46.9445, 68.7747,
87.1446

■ 46.9445, 68.7747,
87.1446

■ 45.9622, 68.2862,
86.3605

■ 48.5431, 69.5839,
87.9649


■ 45.4444, 68.0356,
85.6008


■ 50.8384, 70.7506,
88.8204


■ 45.4441, 68.0354,
85.6003


■ 53.9051, 72.3149,
89.7163


■ 57.8066, 74.3094,
90.6555

 62.6000, 76.7637,
91.6407

 68.3372, 79.7044,
92.6744

 75.0662, 83.1563,
93.7587

 82.8316, 87.1424,
94.8957

 88.2789, 89.9333,
95.9286

Harmonies

Analogous

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



47.5177, 68.7747, 57.2321



46.9445, 68.7747, 87.1446



50.8818, 68.7747, 121.6356

Triad

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



46.9445, 68.7747, 87.1446



80.1242, 68.7747, 129.4956



72.3247, 68.7747, 31.3221

Complementary

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



46.9445, 68.7747, 87.1446



37.7082, 20.9268, 5.7956

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.



82.3724, 68.7747, 41.9715



46.9445, 68.7747, 87.1446



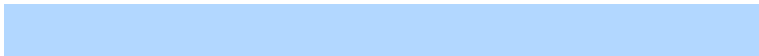
87.2084, 68.7747, 95.8365

Square

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



46.9445, 68.7747, 87.1446



69.5198, 68.7747, 150.2295



88.0739, 68.7747, 63.8309



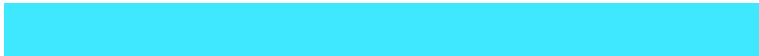
61.3854, 68.7747, 30.1957

Rectangle

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



46.9445, 68.7747, 87.1446



55.8195, 68.7747, 140.5165



88.0739, 68.7747, 63.8309



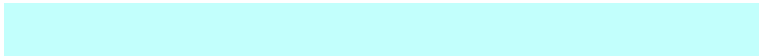
75.9483, 68.7747, 33.7328

Sweetspot

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



46.9466, 68.7773, 87.1462



75.5988, 90.0197, 105.8603



33.4176, 63.4238, 13.2788



15.6851, 19.0136, 22.5681



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.



46.9466, 68.7773, 87.1462



52.3381, 78.1660, 98.5530



28.4396, 29.9027, 86.7136



16.2172, 17.9169, 20.1669



24.8888, 37.2475, 46.9250



2.0793, 3.1022, 3.9500

Inverse Universe

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



37.7082, 20.9268, 5.7956



41.4806, 21.5334, 2.6509



45.0522, 35.9034, 7.3536



15.7995, 15.7695, 16.5004



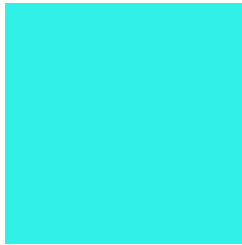
19.7134, 10.1578, 1.1414



1.6493, 0.8488, 0.1440

Previews

White Background



This preview shows how the XYZ color 46.9445, 68.7747, 87.1446 looks on a white background.

Color Contrast Check

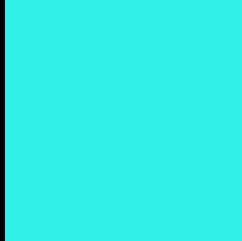
Large Text (above 18pt) WCAG AA × Fail

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 46.9445, 68.7747, 87.1446 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

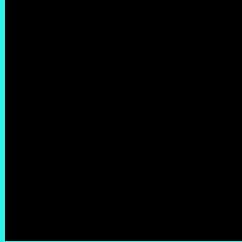
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

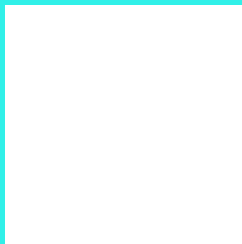
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 46.9445, 68.7747, 87.1446

Background



This preview shows how black text looks on a background with the XYZ color 46.9445, 68.7747, 87.1446.

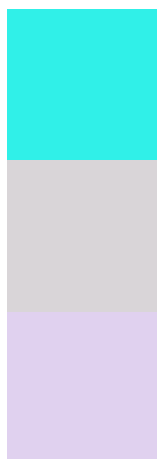


This preview shows how white text looks on a background with the XYZ color 46.9445, 68.7747,

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

46.9445, 68.7747, 87.1446

Protanopia

64.8042, 67.2981, 74.5400

Deuteranopia

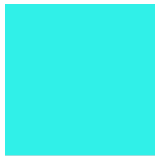
69.1209, 67.6802, 91.0819



Tritanopia

50.7931, 68.6274, 105.1771

Trichromacy



Original Color

46.9445, 68.7747, 87.1446



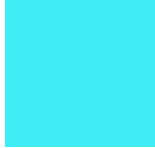
Protanomaly

53.2828, 65.1172, 78.8678



Deuteranomaly

55.2307, 64.7161, 88.9374



Tritanomaly

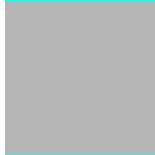
49.1870, 68.3738, 98.6007

Monochromacy



Original Color

46.9445, 68.7747, 87.1446



Achromatopsia

44.4628, 46.7784, 50.9417



Achromatomaly

41.4541, 51.8685, 62.4703

CSS Examples

Text

The CSS property to change the color of the text to XYZ 46.9445, 68.7747, 87.1446 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(48, 240, 232)` looks like.

```
.text, #text, p{  
    color:rgb(48, 240, 232)  
}
```

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(48, 240, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 240, 232) }
```

Border

The CSS property to change the border of an element to XYZ 46.9445, 68.7747, 87.1446 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(48, 240, 232) }
```


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

```
.border{ border-color:rgb(48, 240, 232) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 240, 232)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 240, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 240, 232);  
box-shadow:4px 4px 4px 4px rgb(48, 240,  
232) }
```

Background

The CSS property to change the background color of an element to XYZ 46.9445, 68.7747, 87.1446 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 240, 232) }
```

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

```
.background{ background-color: rgb(48, 240,  
232) }
```

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