

Converting Colors

XYZ(46.9160, 100.0000,
85.7853)

Have a look what the booklet for
XYZ(46.9160, 100.0000, 85.7853)
contains.

XYZ(48.9448, 76.7939, 81.3503)	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(48.9448, 76.7939,
81.3503)**

Conversions

Conversions Part 1

Format	Color
Hex	00FFDE
RGB	0, 255, 222
RGB Percent	0%, 100%, 87%
CMY	0.9998, 0.0000, 0.1294
CMYK	1.00, 0.00, 0.13, 0.00
HSL	172°, 100%, 50%
HSV	172°, 100%, 100%
XYZ	48.9448, 76.7939, 81.3503
YIQ	174.9930, -141.3870, -64.3230

Conversions

Conversions Part 2

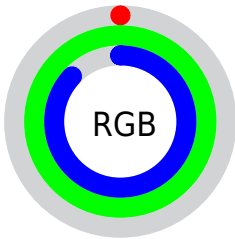
Format	Color
RYB	0, 136, 255
Decimal	65502
CIELab	90.23, -57.11, 1.67
CIELCh	90, 57.130, 178.326
Yxy	76.7939, 0.2363, 0.3708
Android (android.graphics.Color)	4278255582 (0xFF00FFDE)
YUV	174.9930, 23.1745, -153.4689
Hunter-Lab	87.6321, -53.6594, 6.3026

Details

The XYZ color **48.9448, 76.7939, 81.3503** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light saturated cyan. A complement of this color would be **41.5159, 21.3713, 3.3797**, and the grayscale version is **40.6885, 42.8075, 46.6173**.

A 20% lighter version of the original color is **61.2812, 82.5916, 107.3196**, and **26.9413, 42.7225, 43.3855** is the 20% darker color. If you saturate the color by 10%, you get **48.9441, 76.7936, 81.3466**, and if you desaturate by 10%, it is **49.8066, 77.1866, 83.7241**.

Distribution



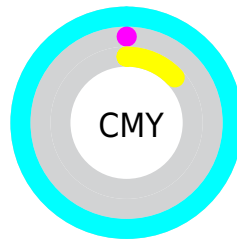
- Red (0%)
- Green (100%)
- Blue (87%)



- Red (0%)
- Yellow (53%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (13%)
- Black (0%)





- Cyan (100%)
- Magenta (0%)
- Yellow (13%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 48.9448, 76.7939, 81.3503 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 48.9448, 76.7939, 81.3503 by changing the saturation by 10% instead.

 48.9448, 76.7939,
81.3503


 48.9448, 76.7939,
81.3503


373.0455,
484.0610, 519.2981


 34.7900, 57.0837,
60.2975


 87.8107, 128.8485,
137.0910


 23.6669, 41.0725,
43.2316


 113.2525,
161.9617, 172.6160

 15.2101, 28.3757,
29.7341


 143.1874,
200.3115, 213.8021

 9.0543, 18.6091,
19.3865

 177.9808,
244.2820, 261.0678

 4.8340, 11.3881,
11.7703

217.9979,
294.2579, 314.8317

 2.1839, 6.3285,
6.4668

263.6042,

 0.7343, 3.0459,

350.6234, 375.5124

3.0576

315.1649,
413.7630, 443.5284

■ 0.0000, 1.1557,
1.1241

■ 0.0000, 0.0251,
0.0000

■ 48.9448, 76.7939,
81.3503

■ 48.9448, 76.7939,
81.3503

■ 48.9441, 76.7936,
81.3466

■ 49.8066, 77.1866,
83.7241

■ 51.2155, 77.8602,
86.1676

■ 53.3366, 78.9001,
88.6902

■ 56.2707, 80.3580,
91.2968

■ 60.1022, 82.2775,
93.9916

■ 64.9050, 84.6968,
96.7782

■ 70.7453, 87.6498,
99.6602

■ 77.6834, 91.1677,
102.6404

■ 85.7748, 95.2792,
105.7218

Harmonies

Analogous

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



52.1199, 76.7939, 48.8911



48.9448, 76.7939, 81.3503



51.4849, 76.7939, 126.5089

Triad

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



48.9448, 76.7939, 81.3503



86.7367, 76.7939, 173.1374



88.2970, 76.7939, 33.1372

Complementary

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



48.9448, 76.7939, 81.3503



41.5159, 21.3713, 3.3797

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.



99.7788, 76.7939, 51.7123



48.9448, 76.7939, 81.3503



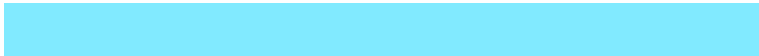
98.7988, 76.7939, 131.7992

Square

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



48.9448, 76.7939, 81.3503



72.1950, 76.7939, 188.7509



103.8480, 76.7939, 85.9224



73.7914, 76.7939, 27.2541

Rectangle

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



48.9448, 76.7939, 81.3503



56.2897, 76.7939, 156.7365



103.8480, 76.7939, 85.9224



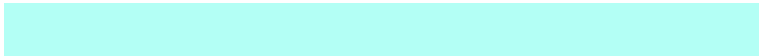
92.7050, 76.7939, 37.7296

Sweetspot

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



48.9458, 76.7944, 81.3517



70.7315, 87.6428, 99.6538



36.4216, 71.8610, 11.9525



14.5847, 18.4784, 21.0674



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

Same Dimension

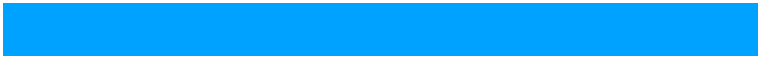
The Same Dimension uses a secret algorithm to generate beautiful new colors.



48.9458, 76.7944, 81.3517



48.9441, 76.7936, 81.3466



30.8867, 32.8923, 99.3287



18.4477, 20.4386, 22.6606



25.6139, 40.1422, 42.7137



2.5209, 3.9193, 4.3011

Inverse Universe

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



41.5159, 21.3713, 3.3797



41.5146, 21.3698, 3.3760



45.2018, 29.1831, 3.2521



18.1050, 18.0253, 19.1703



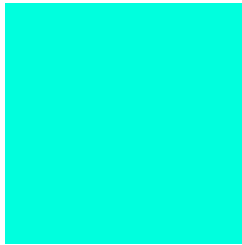
21.7216, 11.1779, 1.9185



2.1433, 1.0997, 0.3362

Previews

White Background



This preview shows how the XYZ color 48.9448, 76.7939, 81.3503 looks on a white background.

Color Contrast Check

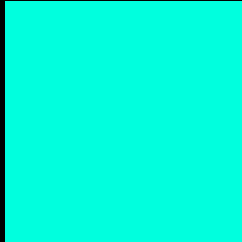
Large Text (above 18pt) WCAG AA × Fail

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 48.9448, 76.7939, 81.3503 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

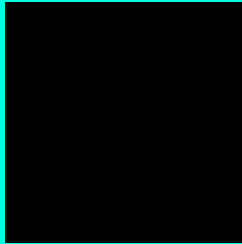
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

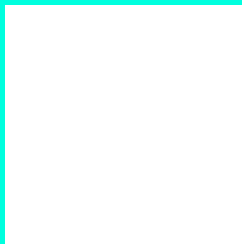
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 48.9448, 76.7939, 81.3503

Background



This preview shows how black text looks on a background with the XYZ color 48.9448, 76.7939, 81.3503.

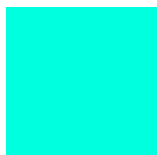


This preview shows how white text looks on a background with the XYZ color 48.9448, 76.7939, 81.3503.

Color Blindness Simulation

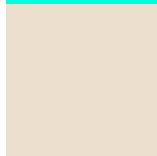
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



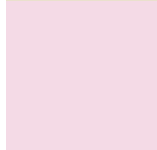
Original Color

48.9448, 76.7939, 81.3503



Protanopia

71.6068, 75.2115, 68.5008



Deuteranopia

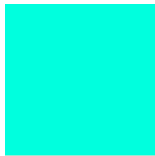
76.6626, 75.0891, 85.3160



Tritanopia

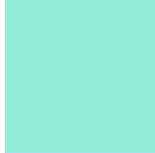
61.1824, 76.1503, 106.0816

Trichromacy



Original Color

48.9448, 76.7939, 81.3503



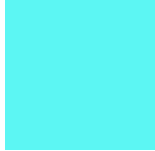
Protanomaly

53.8606, 70.5094, 72.3989



Deuteranomaly

55.9586, 69.6664, 83.1707



Tritanomaly

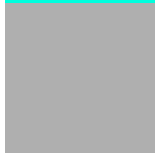
53.5471, 74.6579, 96.3822

Monochromacy



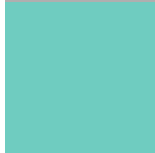
Original Color

48.9448, 76.7939, 81.3503



Achromatopsia

40.7470, 42.8690, 46.6844



Achromatomaly

37.6628, 50.3710, 57.6067

CSS Examples

Text

The CSS property to change the color of the text to XYZ 48.9448, 76.7939, 81.3503 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, 255, 222)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 222)  
}
```

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, 255, 222) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 222) }
```

Border

The CSS property to change the border of an element to XYZ 48.9448, 76.7939, 81.3503 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, 255, 222) }
```


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

```
.border{ border-color:rgb(0, 255, 222) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 255, 222)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 255, 222); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 255, 222); box-shadow:4px 4px 4px 4px rgb(0, 255, 222) }
```

Background

The CSS property to change the background color of an element to XYZ 48.9448, 76.7939, 81.3503 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 255, 222) }
```

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

```
.background{ background-color: rgb(0, 255,  
222) }
```

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