

Converting Colors

XYZ(33.6406, 67.8557, 88.2470)

Have a look what the booklet for
XYZ(33.6406, 67.8557, 88.2470)
contains.

XYZ(49.8333, 76.1338, 89.1596)	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(49.8333, 76.1338,
89.1596)**

Conversions

Conversions Part 1

Format	Color
Hex	00FDE9
RGB	0, 253, 233
RGB Percent	0%, 99%, 91%
CMY	0.9997, 0.0078, 0.0863
CMYK	1.00, 0.00, 0.08, 0.01
HSL	175°, 100%, 50%
HSV	175°, 100%, 99%
XYZ	49.8333, 76.1338, 89.1596
YIQ	175.0730, -144.3680, -59.8560

Conversions

Conversions Part 2

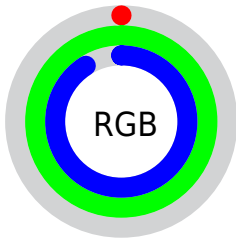
Format	Color
RYB	0, 132, 253
Decimal	65001
CIELab	89.92, -53.38, -4.49
CIELCh	90, 53.568, 184.806
Yxy	76.1338, 0.2316, 0.3539
Android (android.graphics.Color)	4278255081 (0xFF00FDE9)
YUV	175.0730, 28.5580, -153.5390
Hunter-Lab	87.2547, -50.7500, 0.4939

Details

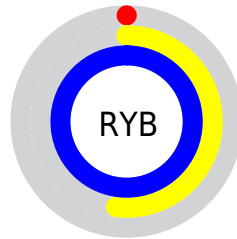
The XYZ color **49.8333, 76.1338, 89.1596** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light saturated cyan. A complement of this color would be **40.6369, 20.9355, 2.5640**, and the grayscale version is **40.7065, 42.8264, 46.6379**.

A 20% lighter version of the original color is **61.4177, 82.6619, 107.3260**, and **27.4509, 42.2045, 48.2944** is the 20% darker color. If you saturate the color by 10%, you get **49.8340, 76.1360, 89.1576**, and if you desaturate by 10%, it is **50.5322, 76.4626, 90.6946**.

Distribution



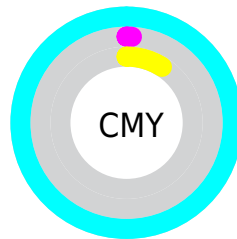
- Red (0%)
- Green (99%)
- Blue (91%)



- Red (0%)
- Yellow (52%)
- Blue (99%)



- Cyan (100%)
- Magenta (0%)
- Yellow (8%)
- Black (1%)





- Cyan (100%)
- Magenta (1%)
- Yellow (9%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 49.8333, 76.1338, 89.1596 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 49.8333, 76.1338, 89.1596 by changing the saturation by 10% instead.


 49.8333, 76.1338,
89.1596


 49.8333, 76.1338,
89.1596


376.4765,
481.8056, 545.7927


 35.4982, 56.5422,
66.7141


 89.1211, 127.9160,
148.0958

 24.2152, 40.6378,
48.3921


 114.8046,
160.8755, 185.4235

 15.6189, 28.0362,
33.7753


 145.0016,
199.0597, 228.5490

 9.3440, 18.3529,
22.4451

 180.0774,
242.8530, 277.8909

 5.0252, 11.2037,
13.9829

220.3975,
292.6398, 333.8677

 2.2969, 6.2040,
7.9701

266.3271,

 0.7931, 2.9695,

348.8046, 396.8979

3.9883

318.2316,
411.7318, 467.4000

■ 0.0000, 1.1158,
1.6190

■ 0.0000, 0.0000,
0.3043

■ 49.8333, 76.1338,
89.1596

■ 49.8333, 76.1338,
89.1596

■ 49.8340, 76.1360,
89.1576

■ 50.5322, 76.4626,
90.6946

■ 51.7614, 77.0627,
92.2697

■ 53.6848, 78.0203,
93.8943

■ 56.4010, 79.3862,
95.5732

■ 59.9928, 81.2031,
97.3101

■ 64.5327, 83.5084,
99.1085

■ 70.0854, 86.3355,
100.9717

■ 76.7102, 89.7148,
102.9023

■ 84.4615, 93.6745,
104.9029

Harmonies

Analogous

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



51.6753, 76.1338, 55.5601



49.8333, 76.1338, 89.1596



53.3990, 76.1338, 131.8952

Triad

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



49.8333, 76.1338, 89.1596



87.8971, 76.1338, 158.3770



83.7562, 76.1338, 32.8589

Complementary

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



49.8333, 76.1338, 89.1596



40.6369, 20.9355, 2.5640

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.



95.3565, 76.1338, 47.8411



49.8333, 76.1338, 89.1596



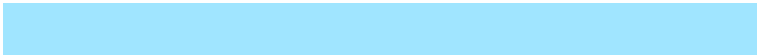
97.9444, 76.1338, 117.9882

Square

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



49.8333, 76.1338, 89.1596



74.5179, 76.1338, 178.9046



100.8276, 76.1338, 76.9343



70.2499, 76.1338, 29.3830

Rectangle

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



49.8333, 76.1338, 89.1596



58.6530, 76.1338, 157.9407



100.8276, 76.1338, 76.9343



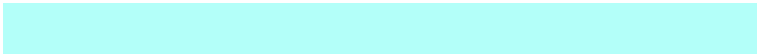
88.0582, 76.1338, 36.4319

Sweetspot

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



49.8355, 76.1367, 89.1614



71.3262, 87.8807, 102.7855



35.4391, 70.4141, 11.7253



14.7290, 18.5361, 21.8273



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.



49.8355, 76.1367, 89.1614



50.7316, 77.5086, 90.7593



28.2602, 28.1508, 96.8759



18.4892, 20.4552, 22.8792



26.5344, 40.5103, 47.5606



2.6012, 3.9514, 4.7238

Inverse Universe

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



40.6369, 20.9355, 2.5640



41.3677, 21.3111, 2.6027



45.6078, 31.0797, 3.5970



18.0677, 18.0104, 18.9734



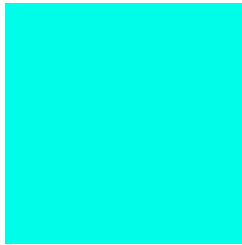
21.6359, 11.1437, 1.4672



2.1257, 1.0927, 0.2436

Previews

White Background



This preview shows how the XYZ color 49.8333, 76.1338, 89.1596 looks on a white background.

Color Contrast Check

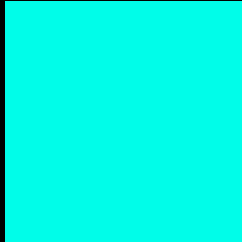
Large Text (above 18pt) WCAG AA × Fail

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 49.8333, 76.1338, 89.1596 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

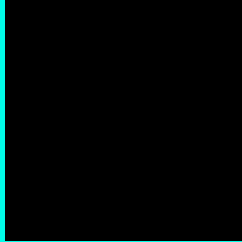
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 49.8333, 76.1338, 89.1596

Background



This preview shows how black text looks on a background with the XYZ color 49.8333, 76.1338, 89.1596.

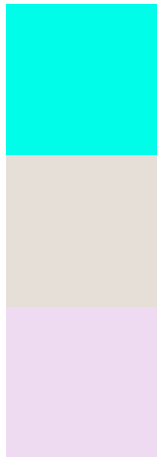


This preview shows how white text looks on a background with the XYZ color 49.8333, 76.1338, 89.1596.

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

49.8333, 76.1338, 89.1596

Protanopia

71.4155, 74.5562, 75.5925

Deuteranopia

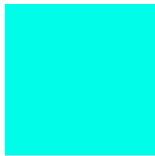
76.2085, 74.6708, 93.6154



Tritanopia

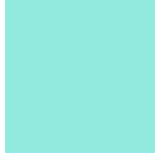
60.4898, 75.7933, 106.0492

Trichromacy



Original Color

49.8333, 76.1338, 89.1596



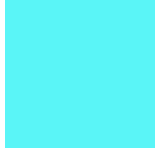
Protanomaly

54.4617, 70.2306, 79.7927



Deuteranomaly

56.7710, 69.9042, 91.3896



Tritanomaly

53.6574, 74.1939, 99.4885

Monochromacy



Original Color

49.8333, 76.1338, 89.1596



Achromatopsia

40.7470, 42.8690, 46.6844



Achromatomaly

37.8753, 50.0769, 59.8941

CSS Examples

Text

The CSS property to change the color of the text to XYZ 49.8333, 76.1338, 89.1596 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, 253, 233)` looks like.

```
.text, #text, p{  
    color:rgb(0, 253, 233)  
}
```

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, 253, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 253, 233) }
```

Border

The CSS property to change the border of an element to XYZ 49.8333, 76.1338, 89.1596 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, 253, 233) }
```


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

```
.border{ border-color:rgb(0, 253, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 253, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 253, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 253, 233);  
box-shadow:4px 4px 4px 4px rgb(0, 253,  
233) }
```

Background

The CSS property to change the background color of an element to XYZ 49.8333, 76.1338, 89.1596 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 253, 233) }
```

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

```
.background{ background-color: rgb(0, 253,  
233) }
```

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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