

# Converting Colors

XYZ(47.8145, 76.3418, 75.3979)

Have a look what the booklet for  
XYZ(47.8145, 76.3418, 75.3979)  
contains.

<b>XYZ(47.7702, 76.3241, 75.1651)</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(47.7702, 76.3241,  
75.1651)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00FFD5
RGB	0, 255, 213
RGB Percent	0%, 100%, 84%
CMY	0.9998, 0.0000, 0.1647
CMYK	1.00, 0.00, 0.16, 0.00
HSL	170°, 100%, 50%
HSV	170°, 100%, 100%
XYZ	47.7702, 76.3241, 75.1651
YIQ	173.9670, -138.4980, -67.1220

# Conversions

## Conversions Part 2

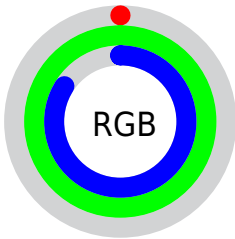
Format	Color
<b>RYB</b>	0, 139, 255
Decimal	65493
CIELab	90.01, -59.40, 6.02
CIELCh	90, 59.706, 174.217
Yxy	76.3241, 0.2397, 0.3830
Android (android.graphics.Color)	4278255573 (0xFF00FFD5)
YUV	173.9670, 19.2433, -152.5691
Hunter-Lab	87.3637, -55.2831, 10.1432

# Details

The XYZ color **47.7702, 76.3241, 75.1651** 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 **41.6592, 21.4285, 4.1350**, and the grayscale version is **40.1771, 42.2695, 46.0315**.

A 20% lighter version of the original color is **61.1461, 82.5219, 107.3133**, and **26.1378, 42.4011, 39.1544** is the 20% darker color. If you saturate the color by 10%, you get **47.7696, 76.3238, 75.1614**, and if you desaturate by 10%, it is **48.7253, 76.7540, 78.0308**.

# Distribution



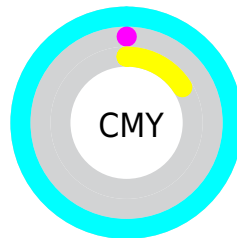
- Red (0%)
- Green (100%)
- Blue (84%)



- Red (0%)
- Yellow (55%)
- Blue (100%)



- Cyan (100%)
- Magenta (0%)
- Yellow (16%)
- Black (0%)




- Cyan (100%)
- Magenta (0%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.7702, 76.3241, 75.1651 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 47.7702, 76.3241, 75.1651 by changing the saturation by 10% instead.





 47.7702, 76.3241,  
75.1651


 47.7702, 76.3241,  
75.1651


368.4783,  
482.4564, 497.7554


 33.8554, 56.6983,  
55.2456


 86.0739, 128.1849,  
128.2953


 22.9449, 40.7631,  
39.1985


 111.1936,  
161.1888, 162.3431

 14.6733, 28.1340,  
26.6051


 140.7789,  
199.4207, 201.9374

 8.6753, 18.4267,  
17.0471

 175.1953,  
243.2652, 247.4967

 4.5854, 11.2568,  
10.1058

 214.8081,  
293.1067, 299.4396

 2.0383, 6.2398,  
5.3626

259.9826,

 0.6554, 2.9914,

349.3294, 358.1847

2.3991

311.0842,  
412.3179, 424.1504

■ 0.0000, 1.1273,  
0.7860

■ 0.0000, 0.0011,  
0.0000

■ 47.7702, 76.3241,  
75.1651

■ 47.7702, 76.3241,  
75.1651

■ 47.7696, 76.3238,  
75.1614

■ 48.7253, 76.7540,  
78.0308

■ 50.2325, 77.4670,  
80.9937

■ 52.4572, 78.5482,  
84.0633

■ 55.5001, 80.0496,  
87.2448

■ 59.4459, 82.0148,  
90.5428

■ 64.3683, 84.4819,  
93.9612

■ 70.3336, 87.4849,  
97.5037

■ 77.4022, 91.0549,  
101.1734

■ 85.6296, 95.2208,  
104.9736

# Harmonies

## Analogous

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



51.8336, 76.3241, 44.0006



47.7702, 76.3241, 75.1651



49.5771, 76.3241, 121.1870

# Triad

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



47.7702, 76.3241, 75.1651



84.8448, 76.3241, 181.7031



90.4740, 76.3241, 32.9974

# Complementary

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



47.7702, 76.3241, 75.1651



41.6592, 21.4285, 4.1350

# 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.



101.6914, 76.3241, 53.9737



47.7702, 76.3241, 75.1651



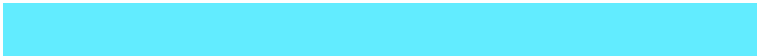
98.1446, 76.3241, 140.3987

# Square

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



47.7702, 76.3241, 75.1651



69.7160, 76.3241, 193.3173



104.6733, 76.3241, 91.5830



75.4470, 76.3241, 25.5582



# Rectangle

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



47.7702, 76.3241, 75.1651



54.0120, 76.3241, 153.8203



104.6733, 76.3241, 91.5830



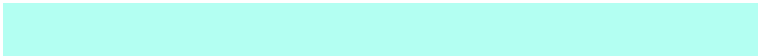
94.8928, 76.3241, 38.2646

# Sweetspot

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



47.7711, 76.3245, 75.1665



70.3220, 87.4790, 97.4972



36.7372, 72.0238, 11.9670



14.4856, 18.4388, 20.5455



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.



47.7711, 76.3245, 75.1665



47.7696, 76.3238, 75.1614



32.4281, 35.9754, 99.8426



18.4188, 20.4270, 22.5082



25.0083, 39.8999, 39.5247



2.4677, 3.8980, 4.0206



# Inverse Universe

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



41.6592, 21.4285, 4.1350



41.6580, 21.4272, 4.1312



44.4911, 27.7619, 3.0149



18.1314, 18.0359, 19.3091



21.8028, 11.2104, 2.3461

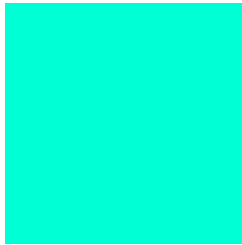


2.1557, 1.1046, 0.4013



# Previews

## White Background



This preview shows how the XYZ color 47.7702, 76.3241, 75.1651 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

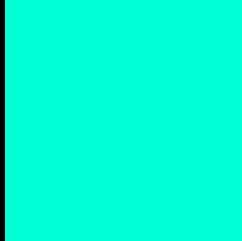
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.7702, 76.3241, 75.1651 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 47.7702, 76.3241, 75.1651

## Background



This preview shows how black text looks on a background with the XYZ color 47.7702, 76.3241, 75.1651.



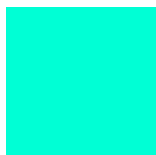
This preview shows how white text looks on a background with the XYZ color 47.7702, 76.3241, 75.1651.



# Color Blindness Simulation

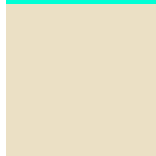
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

47.7702, 76.3241, 75.1651



### Protanopia

70.9946, 75.0047, 63.5589



### Deuteranopia

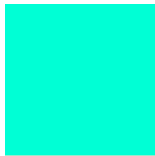
76.2218, 74.6203, 78.7925



## Tritanopia

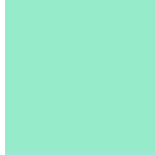
60.8330, 75.9702, 106.0652

# Trichromacy



## Original Color

47.7702, 76.3241, 75.1651



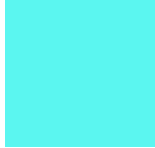
## Protanomaly

53.0655, 70.2125, 67.2554



## Deuteranomaly

55.1354, 69.3819, 76.8158



## Tritanomaly

52.9983, 74.4270, 94.0106

# Monochromacy



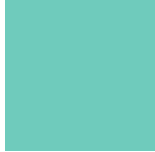
## Original Color

47.7702, 76.3241, 75.1651



## Achromatopsia

40.2316, 42.3268, 46.0938



## Achromatomaly

36.9886, 49.7222, 55.2248

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.7702, 76.3241, 75.1651 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, 213)` looks like.

```
.text, #text, p{  
    color:rgb(0, 255, 213)  
}
```

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, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 255, 213) }
```

## Border

The CSS property to change the border of an element to XYZ 47.7702, 76.3241, 75.1651 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, 213) }
```



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

```
.border{ border-color:rgb(0, 255, 213) }
```

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, 213)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 255, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 255, 213);  
box-shadow:4px 4px 4px 4px rgb(0, 255,  
213) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.7702, 76.3241, 75.1651 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, 213) }
```

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

```
.background{ background-color: rgb(0, 255,  
213) }
```

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