

Converting Colors

XYZ(50.1231, 77.4230, 80.4299)

Have a look what the booklet for
XYZ(50.1231, 77.4230, 80.4299)
contains.

XYZ(50.1764, 77.4443, 80.7103)	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(50.1764, 77.4443,
80.7103)**

Conversions

Conversions Part 1

Format	Color
Hex	33FFDD
RGB	51, 255, 221
RGB Percent	20%, 100%, 87%
CMY	0.7999, 0.0000, 0.1333
CMYK	0.80, 0.00, 0.13, 0.00
HSL	170°, 100%, 60%
HSV	170°, 80%, 100%
XYZ	50.1764, 77.4443, 80.7103
YIQ	190.1280, -110.6700, -53.8220

Conversions

Conversions Part 2

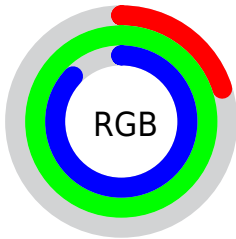
Format	Color
RYB	51, 162, 255
Decimal	3407837
CIELab	90.53, -55.06, 2.66
CIELCh	91, 55.125, 177.232
Yxy	77.4443, 0.2408, 0.3717
Android (android.graphics.Color)	4281597917 (0xFF33FFDD)
YUV	190.1280, 15.2199, -122.0153
Hunter-Lab	88.0024, -52.2288, 7.2247

Details

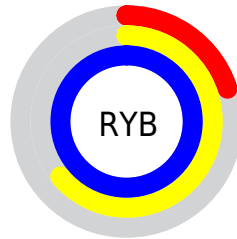
The XYZ color **50.1764, 77.4443, 80.7103** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **44.0646, 24.2849, 10.9617**, and the grayscale version is **48.9799, 51.5307, 56.1169**.

A 20% lighter version of the original color is **63.3257, 83.6455, 107.4153**, and **26.8492, 42.6857, 42.9005** is the 20% darker color. If you saturate the color by 10%, you get **48.6658, 76.7301, 77.7220**, and if you desaturate by 10%, it is **52.4065, 78.5276, 83.8098**.

Distribution



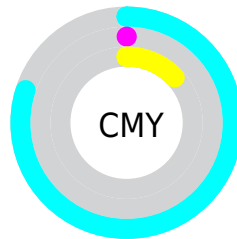
- Red (20%)
- Green (100%)
- Blue (87%)



- Red (20%)
- Yellow (64%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (13%)
- Black (0%)





- Cyan (80%)
- Magenta (0%)
- Yellow (13%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 50.1764, 77.4443, 80.7103 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 50.1764, 77.4443, 80.7103 by changing the saturation by 10% instead.


 50.1764, 77.4443,
80.7103


 50.1764, 77.4443,
80.7103


377.7960,
486.2775, 517.0931


 35.7720, 57.6176,
59.7734


 89.6264, 129.7665,
136.1843

 24.4274, 41.5013,
42.8119


 115.4027,
163.0307, 171.5586

 15.7774, 28.7110,
29.4073


 145.7004,
201.5430, 212.5823

 9.4566, 18.8623,
19.1409

 180.8847,
245.6876, 259.6742

 5.0997, 11.5708,
11.5943

221.3211,
295.8489, 313.2526

 2.3412, 6.4522,
6.3489

267.3748,

 0.8156, 3.1219,

352.4114, 373.7363

2.9862

319.4113,
415.7595, 441.5436

■ 0.0000, 1.1957,
1.0876

■ 0.0000, 0.0582,
0.0000

■ 50.1764, 77.4443,
80.7103

■ 50.1764, 77.4443,
80.7103

■ 48.6658, 76.7301,
77.7220

■ 52.4065, 78.5276,
83.8098

■ 47.7073, 76.2989,
74.8326

■ 55.4541, 80.0308,
87.0216

■ 47.7068, 76.2987,
74.8311

■ 59.4047, 81.9978,
90.3515

■ 64.3323, 84.4668,
93.8036

■ 70.3030, 87.4718,
97.3815

■ 77.3773, 91.0440,
101.0885

■ 85.6107, 95.2120,
104.9277

■ 95.0500, 100.0000,
108.9000

Harmonies

Analogous

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



53.4904, 77.4443, 49.5435



50.1764, 77.4443, 80.7103



52.4624, 77.4443, 124.0582

Triad

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



50.1764, 77.4443, 80.7103



86.4188, 77.4443, 171.4546



88.9100, 77.4443, 35.2364

Complementary

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



50.1764, 77.4443, 80.7103



44.0646, 24.2849, 10.9617

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.



99.7874, 77.4443, 54.1330



50.1764, 77.4443, 80.7103



98.2275, 77.4443, 132.4551

Square

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



50.1764, 77.4443, 80.7103



72.3357, 77.4443, 185.1699



103.3915, 77.4443, 88.0433



74.8961, 77.4443, 28.9489

Rectangle

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



50.1764, 77.4443, 80.7103



57.0341, 77.4443, 153.2461



103.3915, 77.4443, 88.0433



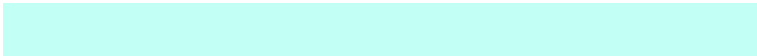
93.1180, 77.4443, 39.9640

Sweetspot

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



50.1773, 77.4447, 80.7117



74.4077, 89.5432, 99.5880



40.4213, 73.8540, 15.2583



15.3937, 18.8971, 21.0340



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.



50.1773, 77.4447, 80.7117



48.0508, 76.4511, 75.9761



37.9170, 44.9264, 101.2810



18.4172, 20.4264, 22.4999



24.9760, 39.8870, 39.3542



2.4648, 3.8969, 4.0055

Inverse Universe

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



44.0646, 24.2849, 10.9617



41.9483, 21.7204, 5.1135



48.0383, 33.9000, 7.1450



18.1329, 18.0365, 19.3168



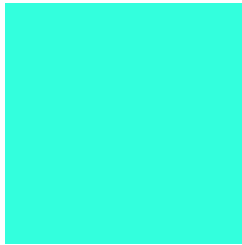
21.8078, 11.2124, 2.3724



2.1564, 1.1049, 0.4050

Previews

White Background



This preview shows how the XYZ color 50.1764, 77.4443, 80.7103 looks on a white background.

Color Contrast Check

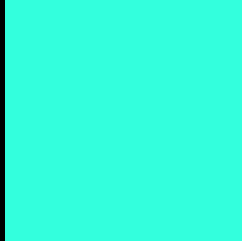
Large Text (above 18pt) WCAG AA × Fail

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 50.1764, 77.4443, 80.7103 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 50.1764, 77.4443, 80.7103

Background



This preview shows how black text looks on a background with the XYZ color 50.1764, 77.4443, 80.7103.

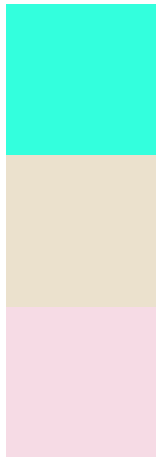


This preview shows how white text looks on a background with the XYZ color 50.1764, 77.4443,

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

50.1764, 77.4443, 80.7103

Protanopia

72.2056, 75.9204, 68.6061

Deuteranopia

77.4804, 75.9130, 84.6978



Tritanopia

62.2678, 76.7099, 106.1324

Trichromacy



Original Color

50.1764, 77.4443, 80.7103



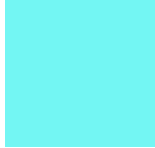
Protanomaly

57.9018, 73.0189, 72.6703



Deuteranomaly

60.2633, 72.3182, 82.7341



Tritanomaly

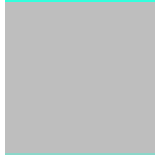
56.2037, 76.0274, 96.5065

Monochromacy



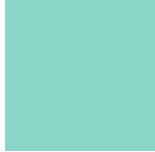
Original Color

50.1764, 77.4443, 80.7103



Achromatopsia

48.9429, 51.4918, 56.0745



Achromatomaly

45.2366, 57.7991, 64.0305

CSS Examples

Text

The CSS property to change the color of the text to XYZ 50.1764, 77.4443, 80.7103 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(51, 255, 221)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 221)  
}
```

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(51, 255, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 221) }
```

Border

The CSS property to change the border of an element to XYZ 50.1764, 77.4443, 80.7103 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(51, 255, 221) }
```


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

```
.border{ border-color:rgb(51, 255, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 255, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(51, 255, 221); -webkit-box-shadow:4px 4px 4px 4px rgb(51, 255, 221); box-shadow:4px 4px 4px 4px rgb(51, 255, 221) }
```

Background

The CSS property to change the background color of an element to XYZ 50.1764, 77.4443, 80.7103 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 221) }
```

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

```
.background{ background-color: rgb(51, 255,  
221) }
```

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