

# Converting Colors

XYZ(51.5262, 80.9589, 79.8284)

Have a look what the booklet for  
XYZ(51.5262, 80.9589, 79.8284)  
contains.

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# Color

**XYZ(49.6729, 77.2153,  
79.3038)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2EFFDB
RGB	46, 255, 219
RGB Percent	18%, 100%, 86%
CMY	0.8195, 0.0000, 0.1412
CMYK	0.82, 0.00, 0.14, 0.00
HSL	170°, 100%, 59%
HSV	170°, 82%, 100%
XYZ	49.6729, 77.2153, 79.3038
YIQ	188.4050, -113.0080, -55.5040

# Conversions

## Conversions Part 2

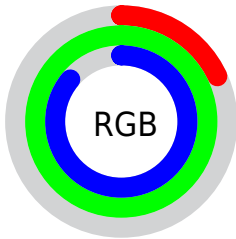
Format	Color
<a href="#">RYB</a>	<a href="#">46, 160, 255</a>
Decimal	<a href="#">3080155</a>
CIELab	<a href="#">90.42, -55.96, 3.54</a>
CIELCh	<a href="#">90, 56.076, 176.382</a>
Yxy	<a href="#">77.2153, 0.2409, 0.3745</a>
Android (android.graphics.Color)	<a href="#">4281270235</a> ( <a href="#">0xFF2EFFDB</a> )
YUV	<a href="#">188.4050, 15.0833, -124.8892</a>
Hunter-Lab	<a href="#">87.8722, -52.8730, 8.0019</a>

# Details

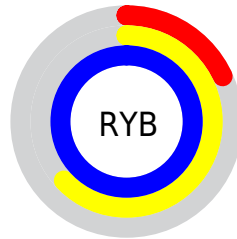
The XYZ color **49.6729, 77.2153, 79.3038** is a light color, and the websafe version is hex **33FFCC**. The color can be described as light washed cyan. A complement of this color would be **43.7411, 23.8246, 10.2785**, and the grayscale version is **47.9954, 50.4949, 54.9889**.

A 20% lighter version of the original color is **63.0159, 83.4858, 107.4008**, and **26.6671, 42.6128, 41.9416** is the 20% darker color. If you saturate the color by 10%, you get **48.2747, 76.5604, 76.2605**, and if you desaturate by 10%, it is **51.7690, 78.2282, 82.4622**.

# Distribution



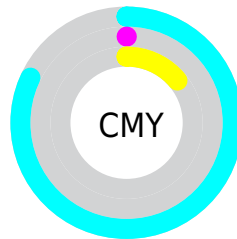
- Red (18%)
- Green (100%)
- Blue (86%)



- Red (18%)
- Yellow (63%)
- Blue (100%)



- Cyan (82%)
- Magenta (0%)
- Yellow (14%)
- Black (0%)




- Cyan (82%)
- Magenta (0%)
- Yellow (14%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.6729, 77.2153, 79.3038 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 49.6729, 77.2153, 79.3038 by changing the saturation by 10% instead.





 49.6729, 77.2153,  
79.3038


 49.6729, 77.2153,  
79.3038


375.8586,  
485.4978, 512.2282


 35.3703, 57.4296,  
58.6228


 88.8848, 129.4434,  
134.1890


 24.1161, 41.3502,  
41.8916


 114.5247,  
162.6545, 169.2303

 15.5450, 28.5929,  
28.6915


 144.6746,  
201.1096, 209.8955

 9.2915, 18.7730,  
18.6040

 179.6996,  
245.1930, 256.6031

 4.9905, 11.5064,  
11.2106

219.9651,  
295.2891, 309.7716

 2.2764, 6.4085,  
6.0927

265.8365,

 0.7825, 3.0951,

351.7824, 369.8196

2.8318

317.6792,  
415.0571, 437.1656

■ 0.0000, 1.1816,  
1.0094

■ 0.0000, 0.0466,  
0.0000

■ 49.6729, 77.2153,  
79.3038

■ 49.6729, 77.2153,  
79.3038

■ 48.2747, 76.5604,  
76.2605

■ 51.7690, 78.2282,  
82.4622

■ 47.5274, 76.2269,  
73.8861

■ 54.6654, 79.6518,  
85.7369

■ 58.4502, 81.5317,  
89.1340

■ 63.1991, 83.9067,  
92.6577

68.9796, 86.8118,  
96.3117

75.8532, 90.2786,  
100.0995

83.8764, 94.3362,  
104.0242

93.1019, 99.0116,  
108.0888

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.



53.1812, 77.2153, 48.2109



49.6729, 77.2153, 79.3038



51.8229, 77.2153, 123.1898

# Triad

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



49.6729, 77.2153, 79.3038



86.0125, 77.2153, 173.7620



89.3239, 77.2153, 34.8336

# Complementary

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



49.6729, 77.2153, 79.3038



43.7411, 23.8246, 10.2785

# 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.



100.2401, 77.2153, 54.2624



49.6729, 77.2153, 79.3038



98.1640, 77.2153, 134.3802

# Square

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



49.6729, 77.2153, 79.3038



71.7056, 77.2153, 186.8550



103.6633, 77.2153, 89.0324



75.1022, 77.2153, 28.2228



# Rectangle

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



49.6729, 77.2153, 79.3038



56.3452, 77.2153, 153.1382



103.6633, 77.2153, 89.0324



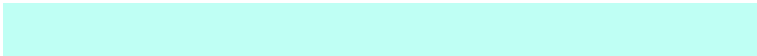
93.5681, 77.2153, 39.7052

# Sweetspot

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



49.6738, 77.2158, 79.3052



73.6408, 89.1616, 98.9316



39.9391, 73.6174, 14.6909



15.2437, 18.8228, 20.8904



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.



49.6738, 77.2158, 79.3052



47.7017, 76.3041, 74.4711



37.3366, 44.1197, 101.1558



18.4126, 20.4246, 22.4758



24.8834, 39.8499, 38.8667



2.4566, 3.8936, 3.9624



# Inverse Universe

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



43.7411, 23.8246, 10.2785



41.8319, 21.5853, 4.7737



47.5490, 33.0885, 6.4670



18.1370, 18.0381, 19.3388



21.8225, 11.2183, 2.4499

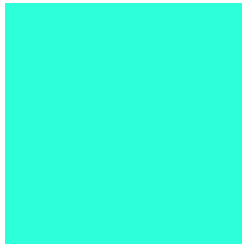


2.1584, 1.1057, 0.4157



# Previews

## White Background



This preview shows how the XYZ color 49.6729, 77.2153, 79.3038 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

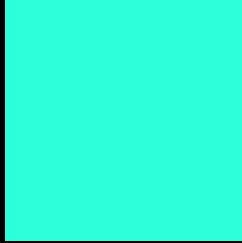
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 49.6729, 77.2153, 79.3038 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 49.6729, 77.2153, 79.3038**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.6729, 77.2153, 79.3038.



This preview shows how white text looks on a background with the XYZ color 49.6729, 77.2153,



# Color Blindness Simulation

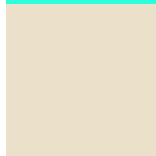
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



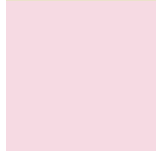
### Original Color

49.6729, 77.2153, 79.3038



### Protanopia

71.9657, 75.8244, 67.3425



### Deuteranopia

76.9426, 75.2817, 83.1486



## Tritanopia

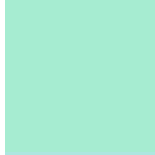
61.8997, 76.5202, 106.1151

# Trichromacy



## Original Color

49.6729, 77.2153, 79.3038



## Protanomaly

57.2300, 72.7013, 71.3380



## Deuteranomaly

59.2640, 71.4179, 81.1825



## Tritanomaly

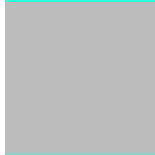
55.6649, 75.7671, 95.6951

# Monochromacy



## Original Color

49.6729, 77.2153, 79.3038



## Achromatopsia

47.7994, 50.2886, 54.7643



## Achromatomaly

44.0056, 56.4447, 62.6084

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.6729, 77.2153, 79.3038 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(46, 255, 219)` looks like.

```
.text, #text, p{  
    color:rgb(46, 255, 219)  
}
```

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(46, 255, 219) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 255, 219) }
```

## Border

The CSS property to change the border of an element to XYZ 49.6729, 77.2153, 79.3038 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(46, 255, 219) }
```



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

```
.border{ border-color:rgb(46, 255, 219) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 255, 219)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 255, 219); -webkit-box-  
shadow:4px 4px 4px 4px rgb(46, 255, 219);  
box-shadow:4px 4px 4px 4px rgb(46, 255,  
219) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.6729, 77.2153, 79.3038 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 255, 219) }
```

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

```
.background{ background-color: rgb(46, 255,  
219) }
```

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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