

# Converting Colors

XYZ(29.2989, 50.4943, 22.1121)

Have a look what the booklet for  
XYZ(29.2989, 50.4943, 22.1121)  
contains.

<b>XYZ(29.2989, 50.4943, 22.1121)</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(29.2989, 50.4943,  
22.1121)**

# Conversions

## Conversions Part 1

Format	Color
Hex	47D66B
RGB	71, 214, 107
RGB Percent	28%, 84%, 42%
CMY	0.7216, 0.1608, 0.5804
CMYK	0.67, 0.00, 0.50, 0.16
HSL	135°, 64%, 56%
HSV	135°, 67%, 84%
XYZ	29.2989, 50.4943, 22.1121
YIQ	159.0450, -50.8810, -63.5930

# Conversions

## Conversions Part 2

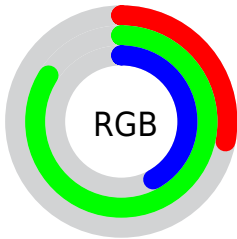
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">71, 185, 214</a>
Decimal	<a href="#">4707947</a>
CIELab	<a href="#">76.37, -60.39, 41.70</a>
CIELCh	<a href="#">76, 73.394, 145.374</a>
Yxy	<a href="#">50.4943, 0.2875, 0.4955</a>
Android (android.graphics.Color)	<a href="#">4282898027 (0xFF47D66B)</a>
YUV	<a href="#">159.0450, -25.6582, -77.2155</a>
Hunter-Lab	<a href="#">71.0593, -50.7555, 31.2918</a>

# Details

The XYZ color **29.2989, 50.4943, 22.1121** is a dark color, and the websafe version is hex **33CC66**. The color can be described as dark muted spring green. A complement of this color would be **38.0220, 22.0177, 44.3661**, and the grayscale version is **33.1066, 34.8307, 37.9306**.

A 20% lighter version of the original color is **52.0968, 79.2090, 45.8008**, and **12.9407, 24.7392, 7.8345** is the 20% darker color. If you saturate the color by 10%, you get **27.2313, 49.5183, 18.0181**, and if you desaturate by 10%, it is **32.0775, 51.8216, 27.0559**.

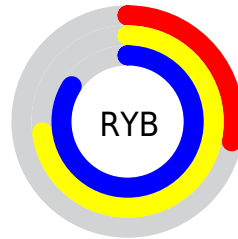
# Distribution



Red (28%)

Green (84%)

Blue (42%)



Red (28%)

Yellow (73%)

Blue (84%)

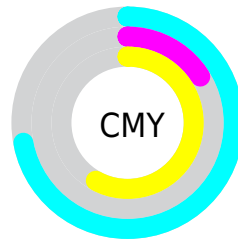


Cyan (67%)

Magenta (0%)

Yellow (50%)

Black (16%)



Cyan (72%)

Magenta (16%)


Yellow (58%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.2989, 50.4943, 22.1121 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 29.2989, 50.4943, 22.1121 by changing the saturation by 10% instead.





 29.2989, 50.4943,  
22.1121


 29.2989, 50.4943,  
22.1121


290.5915,  
388.5958, 276.1037

 19.4525, 35.8063,  
13.7402


 57.9459, 90.9068,  
47.8358


 12.1036, 24.2846,  
7.8035


 77.4772, 117.4001,  
66.0246

 6.8870, 15.5449,  
3.8835


 100.9675,  
148.5974, 88.3228

 3.4372, 9.2027,  
1.5617

 128.7822,  
184.8829, 115.1490

 1.3890, 4.8736,  
0.2632

161.2865,  
226.6411, 146.9216

 0.2483, 2.1733,  
0.0000

198.8460,

 0.0000, 0.7054,

274.2564, 184.0592

0.0000

241.8258,  
328.1132, 226.9804

■ 0.0000, 0.0000,  
0.0000

■ 29.2989, 50.4943,  
22.1121

■ 29.2989, 50.4943,  
22.1121

■ 27.2313, 49.5183,  
18.0181

■ 32.0775, 51.8216,  
27.0559

■ 25.8012, 48.8526,  
14.7222

■ 35.6235, 53.5242,  
32.8906


■ 24.9212, 48.4544,  
12.1721


■ 39.9916, 55.6307,  
39.6584


■ 24.7106, 48.3604,  
11.5071


■ 45.2305, 58.1656,  
47.3980

■ 51.3850, 61.1511,  
56.1460

 58.4967, 64.6080,  
65.9367

 66.6047, 68.5557,  
76.8031

 75.7459, 73.0127,  
88.7768

 82.7186, 76.3276,  
101.7363

# Harmonies

## Analogous

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



37.4947, 50.4943, 10.9294



29.2989, 50.4943, 22.1121



26.1021, 50.4943, 49.0748

# Triad

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



29.2989, 50.4943, 22.1121



45.8846, 50.4943, 170.8709



76.1890, 50.4943, 28.4162

# Complementary

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



29.2989, 50.4943, 22.1121



38.0220, 22.0177, 44.3661

# 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.



79.6056, 50.4943, 61.3403



29.2989, 50.4943, 22.1121



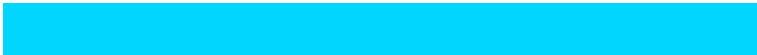
60.2888, 50.4943, 156.2215

# Square

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



29.2989, 50.4943, 22.1121



34.4371, 50.4943, 144.2439



73.3133, 50.4943, 110.4662



64.7087, 50.4943, 13.1531

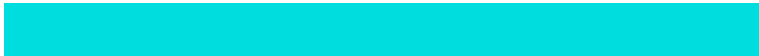


# Rectangle

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



29.2989, 50.4943, 22.1121



26.6816, 50.4943, 77.6941



73.3133, 50.4943, 110.4662



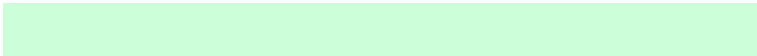
78.4020, 50.4943, 37.1896

# Sweetspot

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



29.3002, 50.4964, 22.1132



73.1654, 89.3588, 78.9282



43.6032, 58.0451, 14.8670



15.1027, 18.8559, 16.1017



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.



29.3002, 50.4964, 22.1132



39.5414, 73.1903, 24.7070



34.7075, 52.6593, 50.5878



12.3894, 13.9468, 13.8650



14.9709, 29.2437, 7.1423



0.9366, 1.7773, 0.6077



# Inverse Universe

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



38.0220, 22.0177, 44.3661



53.2799, 27.9701, 59.4919



32.6268, 19.8596, 15.9551



12.8132, 12.5768, 14.9567



20.6475, 10.1953, 21.2455

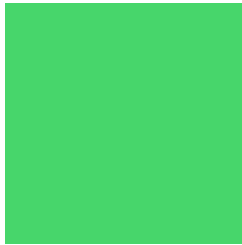


1.2777, 0.6279, 1.4516



# Previews

## White Background



This preview shows how the XYZ color 29.2989, 50.4943, 22.1121 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 29.2989, 50.4943, 22.1121 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

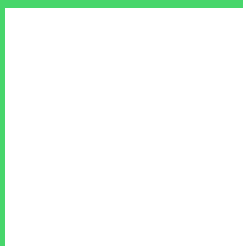
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.2989, 50.4943, 22.1121**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.2989, 50.4943, 22.1121.



This preview shows how white text looks on a background with the XYZ color 29.2989, 50.4943,



# 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

29.2989, 50.4943, 22.1121

### Protanopia

45.4285, 49.5443, 18.7239

### Deuteranopia

50.4368, 49.2705, 23.3748



## Tritanopia

39.6011, 50.3063, 73.9525

# Trichromacy



## Original Color

29.2989, 50.4943, 22.1121



## Protanomaly

36.2198, 48.0402, 19.6756



## Deuteranomaly

38.1890, 46.9999, 22.6819



## Tritanomaly

34.6214, 49.6841, 49.8847

# Monochromacy



## Original Color

29.2989, 50.4943, 22.1121



## Achromatopsia

32.9542, 34.6704, 37.7561



## Achromatomaly

29.6061, 38.6457, 30.7099

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.2989, 50.4943, 22.1121 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(71, 214, 107)` looks like.

```
.text, #text, p{  
    color:rgb(71, 214, 107)  
}
```

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(71, 214, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(71, 214, 107) }
```

## Border

The CSS property to change the border of an element to XYZ 29.2989, 50.4943, 22.1121 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(71, 214, 107) }
```



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

```
.border{ border-color:rgb(71, 214, 107) }
```

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

Here you see how a box with a 4 pixel `rgb(71, 214, 107)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(71, 214, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(71, 214, 107);  
box-shadow:4px 4px 4px 4px rgb(71, 214,  
107) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.2989, 50.4943, 22.1121 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(71, 214, 107) }
```

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

```
.background{ background-color: rgb(71, 214,  
107) }
```

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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