

# Converting Colors

XYZ(21.3855, 41.9029, 4.0663)

Have a look what the booklet for  
XYZ(21.3855, 41.9029, 4.0663)  
contains.

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# Color

**XYZ(21.8266, 41.9129,  
6.9396)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2FC800
RGB	47, 200, 0
RGB Percent	18%, 78%, 0%
CMY	0.8157, 0.2157, 0.9999
CMYK	0.77, 0.00, 1.00, 0.22
HSL	106°, 100%, 39%
HSV	106°, 100%, 78%
XYZ	21.8266, 41.9129, 6.9396
YIQ	131.4530, -26.9880, -94.6360

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 200, 153
Decimal	3131392
CIELab	70.81, -68.00, 69.78
CIELCh	71, 97.435, 134.257
Yxy	41.9129, 0.3088, 0.5930
Android (android.graphics.Color)	4281321472 (0xFF2FC800)
YUV	131.4530, -64.8063, -74.0653
Hunter-Lab	64.7402, -53.1155, 38.9627

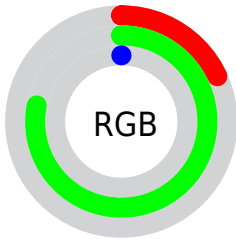
# Details

The XYZ color **21.8266, 41.9129, 6.9396** is a dark color, and the websafe version is hex **33CC00**.

The color can be described as dark washed green. A complement of this color would be **23.5676, 10.9455, 55.5164**, and the grayscale version is **21.9696, 23.1138, 25.1709**.

A 20% lighter version of the original color is **44.9909, 76.1072, 20.1035**, and **9.9733, 19.9465, 3.3244** is the 20% darker color. If you saturate the color by 10%, you get **21.8267, 41.9142, 6.9399**, and if you desaturate by 10%, it is **22.7872, 42.3948, 7.6449**.

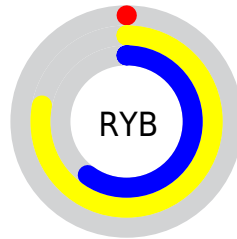
# Distribution



Red (18%)

Green (78%)

Blue (0%)



Red (0%)

Yellow (78%)

Blue (60%)

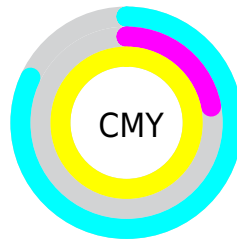


Cyan (77%)

Magenta (0%)

Yellow (100%)

Black (22%)



Cyan (82%)

Magenta (22%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.8266, 41.9129, 6.9396 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 21.8266, 41.9129, 6.9396 by changing the saturation by 10% instead.





 21.8266, 41.9129,  
6.9396


 21.8266, 41.9129,  
6.9396


254.2888,  
354.1217, 176.7727


 13.8454, 29.0331,  
3.3465


 45.9402, 78.0678,  
20.3624

 8.0942, 19.1059,  
1.2742


 62.8034, 102.1117,  
31.0292

 4.2076, 11.7468,  
0.0405


 83.3579, 130.6457,  
44.8909

 1.8202, 6.5715,  
0.0000

 107.9692,  
164.0542, 62.3661

 0.5298, 3.1956,  
0.0000

 137.0026,  
202.7217, 83.8733

 0.0000, 1.2347,  
0.0000

 170.8234,

 0.0000, 0.0898,

247.0325, 109.8312

0.0000

209.7970,  
297.3711, 140.6581

■ 0.0000, 0.0000,  
0.0000

■ 21.8266, 41.9129,  
6.9396

■ 21.8266, 41.9129,  
6.9396

■ 21.8267, 41.9142,  
6.9399

■ 22.7872, 42.3948,  
7.6449

■ 24.1481, 43.0667,  
9.0495

■ 25.9761, 43.9590,  
11.3940

■ 28.3137, 45.0910,  
14.8051

■ 31.1982, 46.4795,  
19.3898

■ 34.6629, 48.1398,  
25.2420

■ 38.7388, 50.0857,  
32.4462

■ 43.4542, 52.3304,  
41.0796

■ 48.8357, 54.8859,  
51.2136

# Harmonies

## Analogous

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



32.6539, 41.9129, 2.2941



21.8266, 41.9129, 6.9396



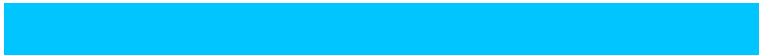
16.7642, 41.9129, 25.4742

# Triad

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



21.8266, 41.9129, 6.9396



31.9760, 41.9129, 196.3914



78.2507, 41.9129, 27.0177

# Complementary

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



21.8266, 41.9129, 6.9396



23.5676, 10.9455, 55.5164

# 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.



77.9236, 41.9129, 74.3399



21.8266, 41.9129, 6.9396



48.0030, 41.9129, 197.9781

# Square

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



21.8266, 41.9129, 6.9396



21.4468, 41.9129, 140.3712



65.7406, 41.9129, 143.8557



66.5406, 41.9129, 7.4156

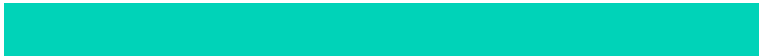


# Rectangle

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



21.8266, 41.9129, 6.9396



16.1641, 41.9129, 52.5769



65.7406, 41.9129, 143.8557



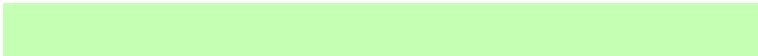
79.6273, 41.9129, 39.3345

# Sweetspot

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



21.8276, 41.9147, 6.9405



66.7339, 86.5535, 55.5724



34.7282, 34.0952, 4.7513



13.6139, 18.2064, 10.6997



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.



21.8276, 41.9147, 6.9405



37.6176, 72.4777, 12.0069



21.2315, 41.5408, 9.9188



10.7268, 12.0061, 11.3148



13.9446, 26.6840, 4.4156



0.7268, 1.2978, 0.2122



# Inverse Universe

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



23.5676, 10.9455, 55.5164



40.5806, 18.8350, 96.1044



29.3263, 14.4826, 30.1074



10.8302, 10.6862, 13.4093



15.0661, 7.0011, 35.3016

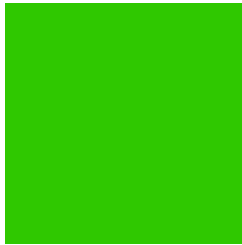


0.7742, 0.3629, 1.6744



# Previews

## White Background



This preview shows how the XYZ color 21.8266, 41.9129, 6.9396 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

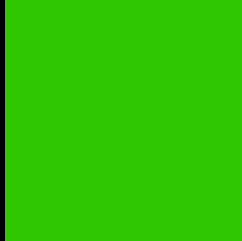
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 21.8266, 41.9129, 6.9396 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

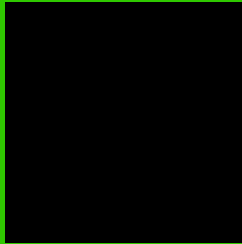
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 21.8266, 41.9129, 6.9396**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.8266, 41.9129, 6.9396.



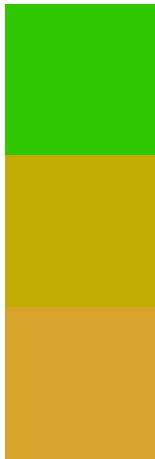
This preview shows how white text looks on a background with the XYZ color 21.8266, 41.9129,



# 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

21.8266, 41.9129, 6.9396

### Protanopia

37.0007, 40.9744, 5.9587

### Deuteranopia

41.8521, 40.9677, 7.9872



## Tritanopia

32.7176, 41.7145, 61.5857

# Trichromacy



## Original Color

21.8266, 41.9129, 6.9396



## Protanomaly

27.7125, 39.1186, 6.0900



## Deuteranomaly

29.2407, 38.0984, 6.8495



## Tritanomaly

25.5877, 40.3979, 26.8710

# Monochromacy



## Original Color

21.8266, 41.9129, 6.9396



## Achromatopsia

21.5731, 22.6966, 24.7166



## Achromatomaly

18.7053, 27.1108, 12.4306

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.8266, 41.9129, 6.9396 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(47, 200, 0)` looks like.

```
.text, #text, p{  
    color:rgb(47, 200, 0)  
}
```

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(47, 200, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 200, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 21.8266, 41.9129, 6.9396 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(47, 200, 0) }
```



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

```
.border{ border-color:rgb(47, 200, 0) }
```

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

Here you see how a box with a 4 pixel rgb(47, 200, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 200, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 200, 0);  
box-shadow:4px 4px 4px 4px rgb(47, 200, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 21.8266, 41.9129, 6.9396 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 200, 0) }
```

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

```
.background{ background-color: rgb(47, 200,  
0) }
```

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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