

# Converting Colors

XYZ(22.5332, 41.7795, 7.2079)

Have a look what the booklet for  
XYZ(22.5332, 41.7795, 7.2079)  
contains.

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# Color

**XYZ(22.5982, 41.9610,  
7.2248)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40C70B
RGB	64, 199, 11
RGB Percent	25%, 78%, 4%
CMY	0.7490, 0.2196, 0.9568
CMYK	0.68, 0.00, 0.94, 0.22
HSL	103°, 90%, 41%
HSV	103°, 94%, 78%
XYZ	22.5982, 41.9610, 7.2248
YIQ	137.2030, -20.1120, -87.0880

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	11, 199, 146
Decimal	4245259
CIELab	70.84, -64.57, 68.76
CIELCh	71, 94.330, 133.201
Yxy	41.9610, 0.3148, 0.5845
Android (android.graphics.Color)	4282435339 (0xFF40C70B)
YUV	137.2030, -62.2181, -64.1990
Hunter-Lab	64.7773, -51.0888, 38.7313

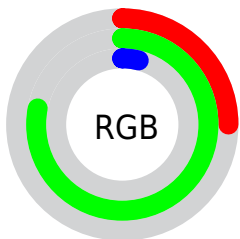
# Details

The XYZ color **22.5982, 41.9610, 7.2248** 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 **22.2873, 10.4766, 54.8826**, and the grayscale version is **24.0903, 25.3448, 27.6005**.

A 20% lighter version of the original color is **46.5662, 76.9059, 20.7775**, and **9.9733, 19.9465, 3.3244** is the 20% darker color. If you saturate the color by 10%, you get **22.0600, 41.6918, 6.8846**, and if you desaturate by 10%, it is **23.8364, 42.5791, 8.2531**.

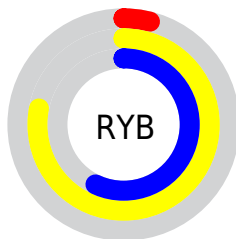
# Distribution



 Red (25%)

 Green (78%)

 Blue (4%)




 Red (4%)

 Yellow (78%)

 Blue (57%)

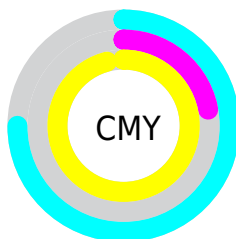


 Cyan (68%)


 Magenta (0%)


 Yellow (94%)

 Black (22%)



 Cyan (75%)

 Magenta (22%)

 Yellow (96%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.5982, 41.9610, 7.2248 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 22.5982, 41.9610, 7.2248 by changing the saturation by 10% instead.



■ 22.5982, 41.9610,  
7.2248

■ 22.5982, 41.9610,  
7.2248

258.2286,  
354.3212, 179.2200

■ 14.4162, 29.0708,  
3.5225

■ 47.2043, 78.1406,  
20.9446

■ 8.4943, 19.1344,  
1.3672

■ 64.3590, 102.1987,  
31.7991

■ 4.4673, 11.7674,  
0.1160

■ 85.2353, 130.7483,  
45.8748

■ 1.9697, 6.5855,  
0.0000

■ 110.1986,  
164.1737, 63.5903

■ 0.6169, 3.2043,  
0.0000

■ 139.6142,  
202.8593, 85.3640

■ 0.0000, 1.2393,  
0.0000

■ 173.8475,

■ 0.0000, 0.0934,

247.1895, 111.6145

0.0000

213.2638,  
297.5487, 142.7603

■ 0.0000, 0.0000,  
0.0000

■ 22.5982, 41.9610,  
7.2248

■ 22.5982, 41.9610,  
7.2248

■ 22.0600, 41.6918,  
6.8846

■ 23.8364, 42.5791,  
8.2531

■ 25.4901, 43.3915,  
10.1432

■ 27.6011, 44.4180,  
13.0332

■ 30.2049, 45.6744,  
17.0362

■ 33.3329, 47.1748,  
22.2500

■ 37.0138, 48.9320,  
28.7619

■ 41.2739, 50.9580,  
36.6510

■ 46.1380, 53.2638,  
45.9900

■ 51.6291, 55.8600,  
56.8467

# Harmonies

## Analogous

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



33.3856, 41.9610, 2.6410



22.5982, 41.9610, 7.2248



17.4217, 41.9610, 25.0004

# Triad

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



22.5982, 41.9610, 7.2248



31.7879, 41.9610, 188.2337



77.0277, 41.9610, 28.6694

# Complementary

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



22.5982, 41.9610, 7.2248



22.2873, 10.4766, 54.8826

# 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.



76.2705, 41.9610, 75.4642



22.5982, 41.9610, 7.2248



47.1723, 41.9610, 191.8624

# Square

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



22.5982, 41.9610, 7.2248



21.6941, 41.9610, 133.9594



64.2885, 41.9610, 141.9658



66.1460, 41.9610, 8.4046

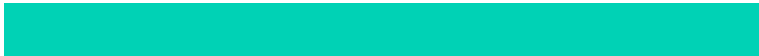


# Rectangle

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



22.5982, 41.9610, 7.2248



16.7177, 41.9610, 50.6823



64.2885, 41.9610, 141.9658



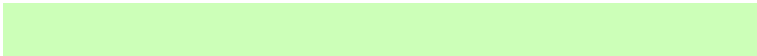
78.1963, 41.9610, 41.0338

# Sweetspot

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



22.5992, 41.9628, 7.2257



69.1958, 87.7622, 58.4207



33.8538, 32.6450, 4.8340



14.1229, 18.4575, 11.2366



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.



22.5992, 41.9628, 7.2257



38.4227, 72.8926, 12.0446



21.1768, 41.1655, 10.0489



10.7735, 12.0302, 11.3170



14.2592, 26.8462, 4.4303



0.7478, 1.3086, 0.2132



# Inverse Universe

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



22.2873, 10.4766, 54.8826



37.6099, 17.3035, 95.9654



29.8692, 14.8605, 33.7656



10.7805, 10.6606, 13.4070



13.9924, 6.4476, 35.2514

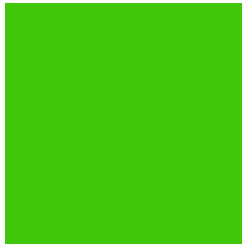


0.7307, 0.3404, 1.6723



# Previews

## White Background



This preview shows how the XYZ color 22.5982, 41.9610, 7.2248 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 22.5982, 41.9610, 7.2248 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

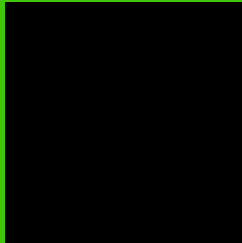
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 22.5982, 41.9610, 7.2248**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.5982, 41.9610, 7.2248.



This preview shows how white text looks on a background with the XYZ color 22.5982, 41.9610,



# 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

22.5982, 41.9610, 7.2248

### Protanopia

37.0007, 40.9744, 5.9587

### Deuteranopia

41.8521, 40.9677, 7.9872



## Tritanopia

33.2538, 41.6928, 60.9384

# Trichromacy



## Original Color

22.5982, 41.9610, 7.2248



## Protanomaly

28.7825, 39.6677, 6.2545



## Deuteranomaly

30.4706, 38.7267, 7.1653



## Tritanomaly

26.5347, 40.5403, 27.8993

# Monochromacy



## Original Color

22.5982, 41.9610, 7.2248



## Achromatopsia

23.7775, 25.0158, 27.2422



## Achromatomaly

20.8895, 29.2119, 14.4350

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.5982, 41.9610, 7.2248 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(64, 199, 11)` looks like.

```
.text, #text, p{  
    color:rgb(64, 199, 11)  
}
```

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(64, 199, 11) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 199, 11) }
```

## Border

The CSS property to change the border of an element to XYZ 22.5982, 41.9610, 7.2248 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(64, 199, 11) }
```



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

```
.border{ border-color:rgb(64, 199, 11) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 199, 11)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 199, 11); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 199, 11);  
box-shadow:4px 4px 4px 4px rgb(64, 199,  
11) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.5982, 41.9610, 7.2248 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 199, 11) }
```

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

```
.background{ background-color: rgb(64, 199,  
11) }
```

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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