

# Converting Colors

XYZ(38.7792, 70.5967, 20.2674)

Have a look what the booklet for  
XYZ(38.7792, 70.5967, 20.2674)  
contains.

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# Color

**XYZ(38.7270, 70.5229,  
20.1655)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4BFA55
RGB	75, 250, 85
RGB Percent	29%, 98%, 33%
CMY	0.7059, 0.0196, 0.6666
CMYK	0.70, 0.00, 0.66, 0.02
HSL	123°, 95%, 64%
HSV	123°, 70%, 98%
XYZ	38.7270, 70.5229, 20.1655
YIQ	178.8650, -51.3350, -88.4150

# Conversions

## Conversions Part 2

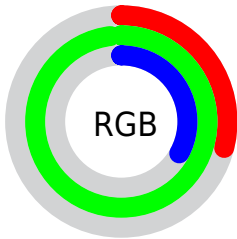
Format	Color
<a href="#">RYB</a>	<a href="#">75, 241, 250</a>
Decimal	<a href="#">4979285</a>
CIELab	<a href="#">87.25, -74.38, 64.02</a>
CIELCh	<a href="#">87, 98.136, 139.280</a>
Yxy	<a href="#">70.5229, 0.2992, 0.5449</a>
Android (android.graphics.Color)	<a href="#">4283169365 (0xFF4BFA55)</a>
YUV	<a href="#">178.8650, -46.2754, -91.0896</a>
Hunter-Lab	<a href="#">83.9779, -64.6448, 44.5473</a>

# Details

The XYZ color **38.7270, 70.5229, 20.1655** is a dark color, and the websafe version is hex **33FF66**. The color can be described as middle washed green. A complement of this color would be **57.6705, 31.6486, 85.5081**, and the grayscale version is **43.0359, 45.2771, 49.3068**.

A 20% lighter version of the original color is **52.2448, 79.4628, 37.7836**, and **18.9672, 37.7463, 6.9022** is the 20% darker color. If you saturate the color by 10%, you get **36.3565, 69.3937, 15.9546**, and if you desaturate by 10%, it is **42.1804, 72.1784, 26.0575**.

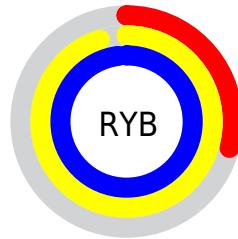
# Distribution



Red (29%)

Green (98%)

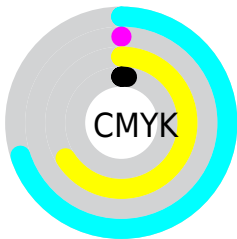
Blue (33%)



Red (29%)

Yellow (95%)

Blue (98%)

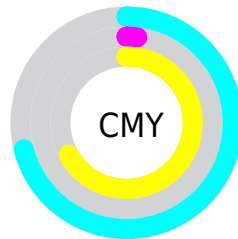


Cyan (70%)

Magenta (0%)

Yellow (66%)

Black (2%)



Cyan (71%)

Magenta (2%)

Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.7270, 70.5229, 20.1655 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 38.7270, 70.5229, 20.1655 by changing the saturation by 10% instead.





 38.7270, 70.5229,  
20.1655


 38.7270, 70.5229,  
20.1655


331.9556,  
462.3839, 265.4435


 26.7272, 51.9529,  
12.3301


 72.5178, 119.9541,  
44.5571


 17.5040, 36.9676,  
6.8437


 95.0395, 151.5842,  
61.9504

 10.6920, 25.1824,  
3.2876


 121.7993,  
188.3365, 83.3668

 5.9259, 16.2130,  
1.2433

 153.1624,  
230.5952, 109.2247

 2.8403, 9.6750,  
0.0146

189.4942,  
278.7450, 139.9429

 1.0699, 5.1840,  
0.0000

231.1601,

 0.0000, 2.3556,

333.1701, 175.9397

0.0000

278.5255,  
394.2549, 217.6337

■ 0.0000, 0.8029,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 38.7270, 70.5229,  
20.1655

■ 38.7270, 70.5229,  
20.1655

■ 36.3565, 69.3937,  
15.9546

■ 42.1804, 72.1784,  
26.0575

■ 34.9355, 68.7197,  
13.2451


■ 46.8198, 74.4041,  
33.7768


■ 34.2682, 68.4064,  
11.8235


■ 52.7423, 77.2491,  
43.4589


■ 34.2682, 68.4064,  
11.8235

■ 60.0332, 80.7548,  
55.2254

 68.7706, 84.9591,  
69.1881

 79.0268, 89.8971,  
85.4506

 90.8692, 95.6013,  
104.1102

 93.4770, 96.8539,  
108.3757

# Harmonies

## Analogous

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



53.4291, 70.5229, 8.4741



38.7270, 70.5229, 20.1655



32.2202, 70.5229, 55.5062

# Triad

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



38.7270, 70.5229, 20.1655



59.1160, 70.5229, 281.3433



118.1995, 70.5229, 42.0261

# Complementary

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



38.7270, 70.5229, 20.1655



57.6705, 31.6486, 85.5081

# 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.



120.7176, 70.5229, 102.9126



38.7270, 70.5229, 20.1655



82.7626, 70.5229, 269.8434

# Square

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



38.7270, 70.5229, 20.1655



42.0652, 70.5229, 218.8458



106.5655, 70.5229, 192.9924



100.3165, 70.5229, 15.1530



# Rectangle

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



38.7270, 70.5229, 20.1655



32.1017, 70.5229, 99.1407



106.5655, 70.5229, 192.9924



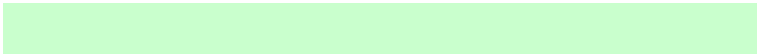
121.0042, 70.5229, 58.0752

# Sweetspot

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



38.7287, 70.5258, 20.1671



70.9290, 88.3842, 70.7701



71.8195, 87.6275, 19.7855



14.6172, 18.6462, 14.2475



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.



38.7287, 70.5258, 20.1671



37.3101, 72.2448, 15.3517



44.4636, 72.8198, 50.3670



17.0576, 19.3253, 18.5039



18.1923, 36.2899, 6.3560



1.6986, 3.3665, 0.6607



# Inverse Universe

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



57.6705, 31.6486, 85.5081



58.1669, 29.2884, 87.1885



47.7543, 27.6821, 33.2904



17.9477, 17.5064, 21.5802



28.9391, 13.9914, 43.2494

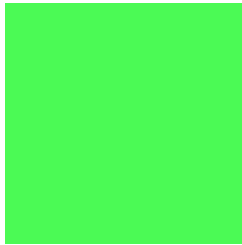


2.6930, 1.3009, 4.0725



# Previews

## White Background



This preview shows how the XYZ color 38.7270, 70.5229, 20.1655 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 38.7270, 70.5229, 20.1655 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

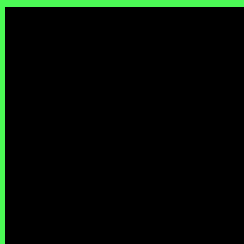
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 38.7270, 70.5229, 20.1655**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.7270, 70.5229, 20.1655.



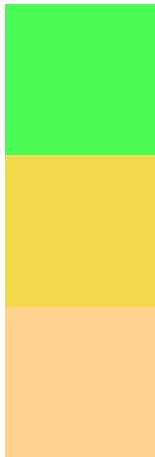
This preview shows how white text looks on a background with the XYZ color 38.7270, 70.5229,



# 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

38.7270, 70.5229, 20.1655

### Protanopia

62.7353, 69.0248, 16.8541

### Deuteranopia

68.9984, 68.8441, 35.6382



## Tritanopia

55.1785, 70.0751, 103.5461

# Trichromacy



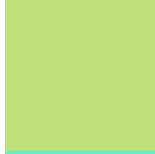
## Original Color

38.7270, 70.5229, 20.1655



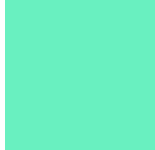
## Protanomaly

48.4866, 66.4269, 17.6633



## Deuteranomaly

51.4037, 65.6636, 28.3774



## Tritanomaly

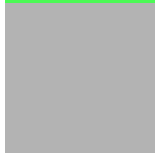
46.5002, 69.1292, 60.7616

# Monochromacy



## Original Color

38.7270, 70.5229, 20.1655



## Achromatopsia

42.8472, 45.0786, 49.0906



## Achromatomaly

37.9267, 51.3697, 34.7045

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.7270, 70.5229, 20.1655 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(75, 250, 85)` looks like.

```
.text, #text, p{  
    color:rgb(75, 250, 85)  
}
```

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(75, 250, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 250, 85) }
```

## Border

The CSS property to change the border of an element to XYZ 38.7270, 70.5229, 20.1655 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(75, 250, 85) }
```



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

```
.border{ border-color:rgb(75, 250, 85) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 250, 85)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 250, 85); -webkit-box-  
shadow:4px 4px 4px 4px rgb(75, 250, 85);  
box-shadow:4px 4px 4px 4px rgb(75, 250,  
85) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.7270, 70.5229, 20.1655 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 250, 85) }
```

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

```
.background{ background-color: rgb(75, 250,  
85) }
```

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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