

# Converting Colors

XYZ(39.6675, 71.2253, 20.7625)

Have a look what the booklet for  
XYZ(39.6675, 71.2253, 20.7625)  
contains.

<b>XYZ(39.4732, 70.8983, 20.6211)</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(39.4732, 70.8983,  
20.6211)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53FA57
RGB	83, 250, 87
RGB Percent	33%, 98%, 34%
CMY	0.6745, 0.0196, 0.6588
CMYK	0.67, 0.00, 0.65, 0.02
HSL	121°, 94%, 65%
HSV	121°, 67%, 98%
XYZ	39.4732, 70.8983, 20.6211
YIQ	181.4850, -47.2090, -86.0970

# Conversions

## Conversions Part 2

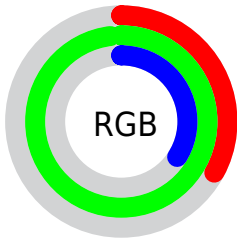
<b>Format</b>	<b>Color</b>
<b>RYB</b>	83, 246, 250
Decimal	5503575
CIELab	87.44, -72.80, 63.48
CIELCh	87, 96.592, 138.911
Yxy	70.8983, 0.3013, 0.5412
Android (android.graphics.Color)	4283693655 (0xFF53FA57)
YUV	181.4850, -46.5811, -86.3713
Hunter-Lab	84.2011, -63.6718, 44.4205

# Details

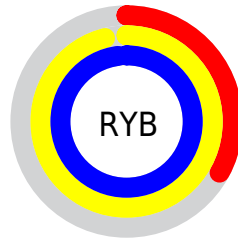
The XYZ color **39.4732, 70.8983, 20.6211** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle muted green. A complement of this color would be **59.1539, 33.1654, 90.4730**, and the grayscale version is **44.4485, 46.7632, 50.9252**.

A 20% lighter version of the original color is **53.4804, 80.0825, 38.6254**, and **19.0043, 37.7611, 7.0976** is the 20% darker color. If you saturate the color by 10%, you get **36.8181, 69.6280, 16.1439**, and if you desaturate by 10%, it is **43.2632, 72.7189, 26.9124**.

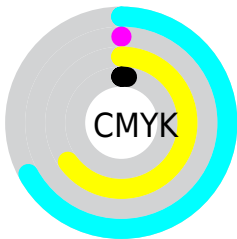
# Distribution



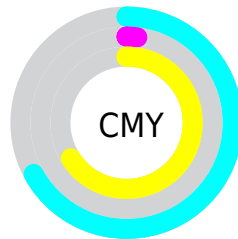
- Red (33%)
- Green (98%)
- Blue (34%)



- Red (33%)
- Yellow (96%)
- Blue (98%)



- Cyan (67%)
- Magenta (0%)
- Yellow (65%)
- Black (2%)




- Cyan (67%)
- Magenta (2%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.4732, 70.8983, 20.6211 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 39.4732, 70.8983, 20.6211 by changing the saturation by 10% instead.





 39.4732, 70.8983,  
20.6211


 39.4732, 70.8983,  
20.6211


335.0708,  
463.6978, 267.9725

 27.3104, 52.2592,  
12.6588


 73.6501, 120.4889,  
45.3287


 17.9443, 37.2117,  
7.0661


 96.3949, 152.2092,  
62.9110

 11.0094, 25.3715,  
3.4244


 123.3978,  
189.0587, 84.5370

 6.1405, 16.3540,  
1.3152

 155.0242,  
231.4218, 110.6254

 2.9722, 9.7750,  
0.0742

191.6393,  
279.6828, 141.5946

 1.1391, 5.2500,  
0.0000

233.6085,

 0.0574, 2.3947,

334.2263, 177.8631

0.0000

281.2972,  
395.4365, 219.8496

0.0000, 0.8232,  
0.0000

0.0000, 0.0000,  
0.0000

39.4732, 70.8983,  
20.6211

39.4732, 70.8983,  
20.6211

36.8181, 69.6280,  
16.1439

43.2632, 72.7189,  
26.9124

35.1673, 68.8386,  
13.2846


48.2904, 75.1328,  
35.1777


34.3651, 68.4568,  
11.8107


54.6515, 78.1887,  
45.5648

34.2198, 68.3871,  
11.5686

62.4319, 81.9279,  
58.2062

 71.7103, 86.3884,  
73.2235

 82.5594, 91.6050,  
90.7295

 93.4770, 96.8540,  
108.3757

# Harmonies

## Analogous

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



54.1650, 70.8983, 8.9498



39.4732, 70.8983, 20.6211



32.8966, 70.8983, 55.4974

# Triad

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



39.4732, 70.8983, 20.6211



59.3092, 70.8983, 277.3059



117.8929, 70.8983, 43.2613

# Complementary

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



39.4732, 70.8983, 20.6211



59.1539, 33.1654, 90.4730

# 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.



120.1526, 70.8983, 103.9211



39.4732, 70.8983, 20.6211



82.6019, 70.8983, 267.0467

# Square

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



39.4732, 70.8983, 20.6211



42.5056, 70.8983, 215.5794



106.0806, 70.8983, 192.4630



100.4652, 70.8983, 15.9984



# Rectangle

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



39.4732, 70.8983, 20.6211



32.7177, 70.8983, 98.3025



106.0806, 70.8983, 192.4630



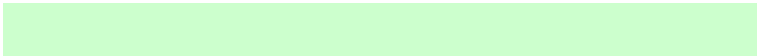
120.5780, 70.8983, 59.3504

# Sweetspot

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



39.4749, 70.9013, 20.6227



71.7082, 88.7759, 71.2547



74.1842, 88.8129, 21.4165



14.7606, 18.7191, 14.3000



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.



39.4749, 70.9013, 20.6227



37.8364, 72.5083, 15.7287



44.9427, 73.0884, 49.4159



17.0343, 19.3160, 18.3810



18.1579, 36.2762, 6.1749



1.6875, 3.3621, 0.6021



# Inverse Universe

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



59.1539, 33.1654, 90.4730



59.6963, 30.5366, 93.2800



49.1948, 29.1817, 38.0291



17.9740, 17.5170, 21.7189



29.5821, 14.2486, 46.6352

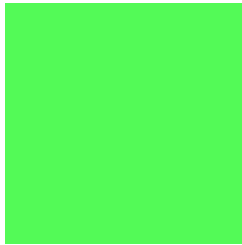


2.7454, 1.3219, 4.3485



# Previews

## White Background



This preview shows how the XYZ color 39.4732, 70.8983, 20.6211 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

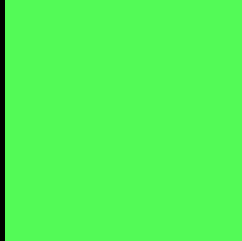
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.4732, 70.8983, 20.6211 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 39.4732, 70.8983, 20.6211**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.4732, 70.8983, 20.6211.



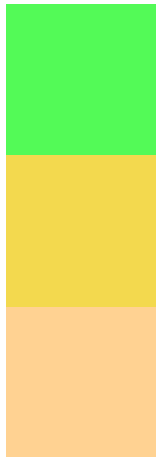
This preview shows how white text looks on a background with the XYZ color 39.4732, 70.8983,



# 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

39.4732, 70.8983, 20.6211

### Protanopia

63.1501, 69.2305, 17.2422

### Deuteranopia

69.4749, 69.4285, 36.9334



## Tritanopia

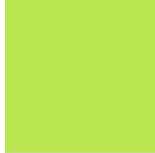
55.9048, 70.4495, 103.5801

# Trichromacy



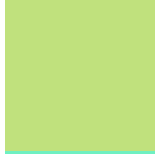
## Original Color

39.4732, 70.8983, 20.6211



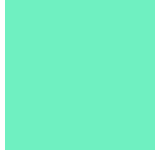
## Protanomaly

49.5121, 66.9470, 18.0971



## Deuteranomaly

52.3651, 66.5376, 29.4851



## Tritanomaly

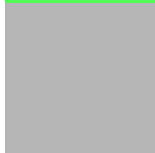
47.3413, 69.5499, 61.3814

# Monochromacy



## Original Color

39.4732, 70.8983, 20.6211



## Achromatopsia

43.9204, 46.2077, 50.3202



## Achromatomaly

39.0148, 52.2689, 35.6364

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.4732, 70.8983, 20.6211 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(83, 250, 87)` looks like.

```
.text, #text, p{  
  color:rgb(83, 250, 87)  
}
```

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(83, 250, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 250, 87) }
```

## Border

The CSS property to change the border of an element to XYZ 39.4732, 70.8983, 20.6211 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(83, 250, 87) }
```



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

```
.border{ border-color:rgb(83, 250, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 250, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 250, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 250, 87);  
box-shadow:4px 4px 4px 4px rgb(83, 250,  
87) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.4732, 70.8983, 20.6211 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 250, 87) }
```

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

```
.background{ background-color: rgb(83, 250,  
87) }
```

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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