

# Converting Colors

XYZ(36.3302, 66.8566, 22.6423)

Have a look what the booklet for  
XYZ(36.3302, 66.8566, 22.6423)  
contains.

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# Color

**XYZ(36.3783, 66.9709,  
22.5646)**

# Conversions

## Conversions Part 1

Format	Color
Hex	36F562
RGB	54, 245, 98
RGB Percent	21%, 96%, 38%
CMY	0.7882, 0.0392, 0.6157
CMYK	0.78, 0.00, 0.60, 0.04
HSL	134°, 91%, 59%
HSV	134°, 78%, 96%
XYZ	36.3783, 66.9709, 22.5646
YIQ	171.1330, -66.6490, -86.2090

# Conversions

## Conversions Part 2

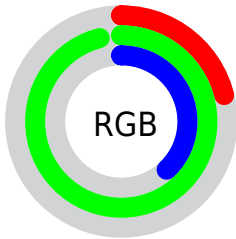
Format	Color
<a href="#">RYB</a>	<a href="#">54, 209, 245</a>
Decimal	<a href="#">3601762</a>
CIELab	<a href="#">85.49, -74.43, 56.63</a>
CIELCh	<a href="#">85, 93.520, 142.735</a>
Yxy	<a href="#">66.9709, 0.2889, 0.5319</a>
Android (android.graphics.Color)	<a href="#">4281791842 (0xFF36F562)</a>
YUV	<a href="#">171.1330, -36.0546, -102.7256</a>
Hunter-Lab	<a href="#">81.8358, -63.8643, 40.9370</a>

# Details

The XYZ color **36.3783, 66.9709, 22.5646** is a dark color, and the websafe version is hex **33FF66**. The color can be described as middle washed spring green. A complement of this color would be **49.5197, 26.2688, 57.7197**, and the grayscale version is **38.9766, 41.0064, 44.6560**.

A 20% lighter version of the original color is **50.8698, 78.6452, 42.6359**, and **18.1882, 35.7078, 8.1242** is the 20% darker color. If you saturate the color by 10%, you get **34.5914, 66.1427, 18.3691**, and if you desaturate by 10%, it is **39.0396, 68.2295, 27.8986**.

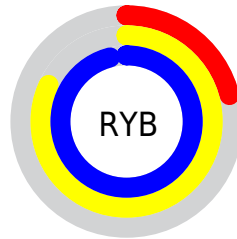
# Distribution



Red (21%)

Green (96%)

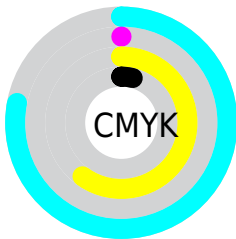
Blue (38%)



Red (21%)

Yellow (82%)

Blue (96%)

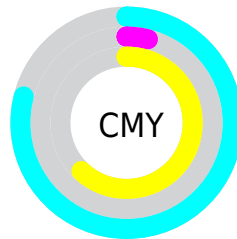


Cyan (78%)

Magenta (0%)

Yellow (60%)

Black (4%)



Cyan (79%)

Magenta (4%)


Yellow (62%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 36.3783, 66.9709, 22.5646 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 36.3783, 66.9709, 22.5646 by changing the saturation by 10% instead.





 36.3783, 66.9709,  
22.5646


 36.3783, 66.9709,  
22.5646


322.0135,  
449.8412, 278.5298


 24.8980, 49.0610,  
14.0701


 68.9356, 114.8787,  
48.5915


 16.1294, 34.6679,  
8.0301


 90.7433, 145.6454,  
66.9610

 9.7072, 23.4071,  
4.0262


 116.7242,  
181.4665, 89.4591

 5.2660, 14.8944,  
1.6397

 147.2436,  
222.7263, 116.5046

 2.4405, 8.7453,  
0.3189

182.6669,  
269.8093, 148.5158

 0.8654, 4.5754,  
0.0000

223.3594,

 0.0000, 2.0004,

323.0998, 185.9114

0.0000

269.6864,  
382.9823, 229.1099

■ 0.0000, 0.6077,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 36.3783, 66.9709,  
22.5646

■ 36.3783, 66.9709,  
22.5646

■ 34.5914, 66.1427,  
18.3691

■ 39.0396, 68.2295,  
27.8986


■ 33.5397, 65.6690,  
15.2232

■ 42.6713, 69.9606,  
34.4418


■ 33.3784, 65.5973,  
14.7008


■ 47.3617, 72.2104,  
42.2642

■ 53.1876, 75.0169,  
51.4294

 60.2183, 78.4148,  
61.9964

 68.5177, 82.4357,  
74.0210

 78.1451, 87.1092,  
87.5557

 89.1558, 92.4627,  
102.6504

 91.9437, 93.7874,  
107.8646

# Harmonies

## Analogous

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



49.1441, 66.9709, 9.5071



36.3783, 66.9709, 22.5646



31.1382, 66.9709, 59.1114

# Triad

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



36.3783, 66.9709, 22.5646



58.6296, 66.9709, 261.2538



109.2181, 66.9709, 36.4252

# Complementary

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



36.3783, 66.9709, 22.5646



49.5197, 26.2688, 57.7197

# 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.



113.3455, 66.9709, 88.7270



36.3783, 66.9709, 22.5646



80.7706, 66.9709, 242.6419

# Square

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



36.3783, 66.9709, 22.5646



41.9964, 66.9709, 211.1572



101.9848, 66.9709, 169.0953



91.7109, 66.9709, 13.8378



# Rectangle

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



36.3783, 66.9709, 22.5646



31.5601, 66.9709, 101.8494



101.9848, 66.9709, 169.0953



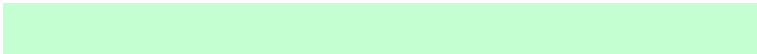
112.3545, 66.9709, 50.0636

# Sweetspot

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



36.3799, 66.9737, 22.5661



70.2317, 87.9490, 74.1567



58.1175, 78.3576, 15.5516



14.3492, 18.4938, 14.8762



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.



36.3799, 66.9737, 22.5661



37.0840, 72.0729, 17.8380



43.5666, 69.8483, 60.4108



16.4386, 18.5346, 18.3280



18.0245, 35.3546, 8.1486



1.6220, 3.1225, 0.9155



# Inverse Universe

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



49.5197, 26.2688, 57.7197



51.8145, 25.7700, 56.7511



41.6900, 23.1370, 16.4892



17.0407, 16.6991, 19.9611



25.2642, 12.4491, 27.1634

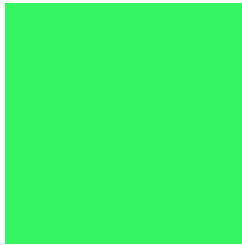


2.2593, 1.1097, 2.5917



# Previews

## White Background



This preview shows how the XYZ color 36.3783, 66.9709, 22.5646 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

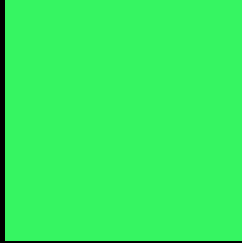
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 36.3783, 66.9709, 22.5646 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 36.3783, 66.9709, 22.5646**

## **Background**



This preview shows how black text looks on a background with the XYZ color 36.3783, 66.9709, 22.5646.



This preview shows how white text looks on a background with the XYZ color 36.3783, 66.9709,



# 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

36.3783, 66.9709, 22.5646

### Protanopia

59.5659, 65.4537, 18.7269

### Deuteranopia

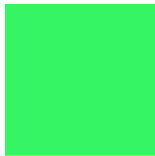
66.3618, 65.4782, 28.8796



## Tritanopia

51.5468, 66.6221, 98.9495

# Trichromacy



## Original Color

36.3783, 66.9709, 22.5646



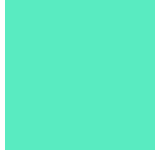
## Protanomaly

44.9496, 62.5190, 19.8235



## Deuteranomaly

47.5152, 61.3488, 25.8602



## Tritanomaly

43.4538, 65.3908, 60.7835

# Monochromacy



## Original Color

36.3783, 66.9709, 22.5646



## Achromatopsia

38.7082, 40.7240, 44.3485



## Achromatomaly

34.1302, 46.9910, 33.6569

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 36.3783, 66.9709, 22.5646 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(54, 245, 98)` looks like.

```
.text, #text, p{  
    color:rgb(54, 245, 98)  
}
```

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(54, 245, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(54, 245, 98) }
```

## Border

The CSS property to change the border of an element to XYZ 36.3783, 66.9709, 22.5646 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(54, 245, 98) }
```



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

```
.border{ border-color:rgb(54, 245, 98) }
```

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

Here you see how a box with a 4 pixel rgb(54, 245, 98) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(54, 245, 98); -webkit-box-  
shadow:4px 4px 4px 4px rgb(54, 245, 98);  
box-shadow:4px 4px 4px 4px rgb(54, 245,  
98) }
```

# Background

The CSS property to change the background color of an element to XYZ 36.3783, 66.9709, 22.5646 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(54, 245, 98) }
```

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

```
.background{ background-color: rgb(54, 245,  
98) }
```

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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