

# Converting Colors

XYZ(33.6399, 66.1548, 10.9962)

Have a look what the booklet for  
XYZ(33.6399, 66.1548, 10.9962)  
contains.

<b>XYZ(33.7187, 66.3048, 11.0210)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(33.7187, 66.3048,  
11.0210)**

# Conversions

## Conversions Part 1

Format	Color
Hex	25F600
RGB	37, 246, 0
RGB Percent	15%, 96%, 0%
CMY	0.8549, 0.0353, 0.9999
CMYK	0.85, 0.00, 1.00, 0.04
HSL	111°, 100%, 48%
HSV	111°, 100%, 96%
XYZ	33.7187, 66.3048, 11.0210
YIQ	155.4650, -45.5980, -120.8140

# Conversions

## Conversions Part 2

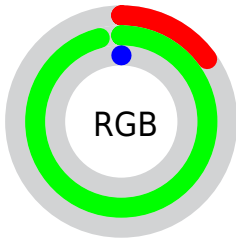
Format	Color
<a href="#">RYB</a>	<a href="#">0, 246, 209</a>
Decimal	<a href="#">2487808</a>
CIELab	<a href="#">85.15, -82.04, 81.19</a>
CIELCh	<a href="#">85, 115.427, 135.299</a>
Yxy	<a href="#">66.3048, 0.3037, 0.5971</a>
Android (android.graphics.Color)	<a href="#">4280677888 (0xFF25F600)</a>
YUV	<a href="#">155.4650, -76.6442, -103.8938</a>
Hunter-Lab	<a href="#">81.4278, -68.5829, 48.9747</a>

# Details

The XYZ color **33.7187, 66.3048, 11.0210** is a dark color, and the websafe version is hex **33FF00**. The color can be described as dark saturated green. A complement of this color would be **42.9421, 20.2164, 88.8311**, and the grayscale version is **31.7097, 33.3610, 36.3302**.

A 20% lighter version of the original color is **46.2096, 76.6938, 22.0407**, and **17.9832, 35.9664, 5.9944** is the 20% darker color. If you saturate the color by 10%, you get **33.7189, 66.3069, 11.0213**, and if you desaturate by 10%, it is **34.8680, 66.8795, 11.9707**.

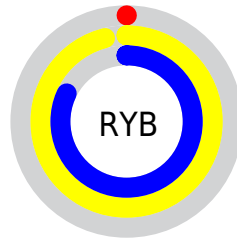
# Distribution



Red (15%)

Green (96%)

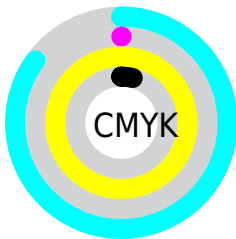
Blue (0%)



Red (0%)

Yellow (96%)

Blue (82%)

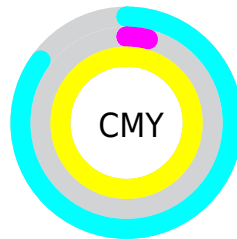


Cyan (85%)

Magenta (0%)

Yellow (100%)

Black (4%)



Cyan (85%)

Magenta (4%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.7187, 66.3048, 11.0210 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 33.7187, 66.3048, 11.0210 by changing the saturation by 10% instead.





 33.7187, 66.3048,  
11.0210


 33.7187, 66.3048,  
11.0210


310.4840,  
447.4662, 208.5542


 22.8394, 48.5199,  
5.9666


 64.8432, 113.9237,  
28.3362

 14.5950, 34.2388,  
2.7563


 85.8191, 144.5264,  
41.4342


 8.6201, 23.0771,  
0.9716


 110.8913,  
180.1706, 58.0504

 4.5494, 14.6504,  
0.0000

 140.4252,  
221.2405, 78.6034

 2.0174, 8.5744,  
0.0000

 174.7860,  
268.1207, 103.5117

 0.6437, 4.4647,  
0.0000

 214.3392,

 0.0000, 1.9367,

321.1954, 133.1939

0.0000

259.4500,  
380.8491, 168.0686

■ 0.0000, 0.5703,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 33.7187, 66.3048,  
11.0210

■ 33.7187, 66.3048,  
11.0210


■ 33.7189, 66.3069,  
11.0213


■ 34.8680, 66.8795,  
11.9707


■ 36.7249, 67.7919,  
14.0818


■ 39.4113, 69.0993,  
17.7105


■ 43.0137, 70.8415,  
23.0711

 47.6076, 73.0535,  
30.3436

 53.2601, 75.7666,  
39.6853

 60.0326, 79.0092,  
51.2374

 67.9817, 82.8079,  
65.1286

 77.1600, 87.1871,  
81.4776

# Harmonies

## Analogous

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



50.7151, 66.3048, 3.4135



33.7187, 66.3048, 11.0210



25.9461, 66.3048, 41.5849

# Triad

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



33.7187, 66.3048, 11.0210



51.1529, 66.3048, 318.5553



124.6774, 66.3048, 40.5923

# Complementary

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



33.7187, 66.3048, 11.0210



42.9421, 20.2164, 88.8311

# 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.



124.8906, 66.3048, 115.0245



33.7187, 66.3048, 11.0210



77.1715, 66.3048, 317.5146

# Square

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



33.7187, 66.3048, 11.0210



33.9628, 66.3048, 229.5327



105.7120, 66.3048, 227.2526



105.1914, 66.3048, 10.7215



# Rectangle

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



33.7187, 66.3048, 11.0210



25.1656, 66.3048, 86.2590



105.7120, 66.3048, 227.2526



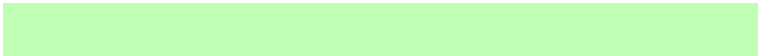
127.1518, 66.3048, 59.7488

# Sweetspot

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



33.7202, 66.3076, 11.0225



65.0804, 85.7011, 55.4950



59.8415, 63.2611, 9.0577



13.2337, 18.0104, 10.6819



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.



33.7202, 66.3076, 11.0225



36.5712, 71.9382, 11.9580



34.4816, 66.5240, 19.0110



16.5140, 18.5915, 17.5157



18.0687, 35.4275, 5.8859



1.6564, 3.1489, 0.5205



# Inverse Universe

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



42.9421, 20.2164, 88.8311



46.5704, 21.9228, 96.3847



44.7102, 22.2753, 37.0724



16.9546, 16.6348, 20.8598



23.0142, 10.8386, 47.4171

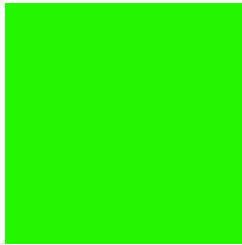


2.0877, 0.9861, 4.1705



# Previews

## White Background



This preview shows how the XYZ color 33.7187, 66.3048, 11.0210 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 33.7187, 66.3048, 11.0210 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

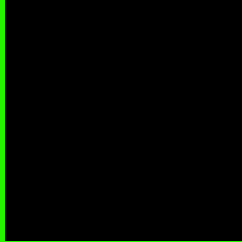
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

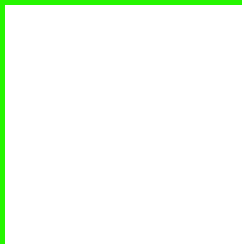
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.7187, 66.3048, 11.0210**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.7187, 66.3048, 11.0210.



This preview shows how white text looks on a background with the XYZ color 33.7187, 66.3048,



# 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

33.7187, 66.3048, 11.0210

### Protanopia

58.5542, 64.7657, 9.4149

### Deuteranopia

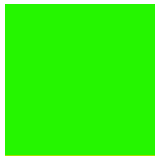
65.1750, 64.6268, 23.7910



## Tritanopia

50.9922, 65.9422, 98.0362

# Trichromacy



## Original Color

33.7187, 66.3048, 11.0210



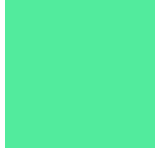
## Protanomaly

42.1727, 61.3106, 9.6114



## Deuteranomaly

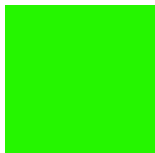
44.0814, 59.8151, 15.0165



## Tritanomaly

39.2738, 63.6448, 42.1130

# Monochromacy



## Original Color

33.7187, 66.3048, 11.0210



## Achromatopsia

31.1553, 32.7778, 35.6950



## Achromatomaly

26.9174, 40.3120, 18.1667

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.7187, 66.3048, 11.0210 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(37, 246, 0)` looks like.

```
.text, #text, p{  
    color:rgb(37, 246, 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(37, 246, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 246, 0) }
```

## Border

The CSS property to change the border of an element to XYZ 33.7187, 66.3048, 11.0210 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(37, 246, 0) }
```



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

```
.border{ border-color:rgb(37, 246, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 246, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 246, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 246, 0);  
box-shadow:4px 4px 4px 4px rgb(37, 246, 0)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 33.7187, 66.3048, 11.0210 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 246, 0) }
```

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

```
.background{ background-color: rgb(37, 246,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor