

Converting Colors

XYZ(33.8157, 66.9537, 12.0440)

Have a look what the booklet for
XYZ(33.8157, 66.9537, 12.0440)
contains.

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Color

**XYZ(33.7048, 66.7302,
12.0235)**

Conversions

Conversions Part 1

Format	Color
Hex	13F719
RGB	19, 247, 25
RGB Percent	7%, 97%, 10%
CMY	0.9255, 0.0314, 0.9019
CMYK	0.92, 0.00, 0.90, 0.03
HSL	122°, 93%, 52%
HSV	122°, 92%, 97%
XYZ	33.7048, 66.7302, 12.0235
YIQ	153.5200, -64.6260, -117.3780

Conversions

Conversions Part 2

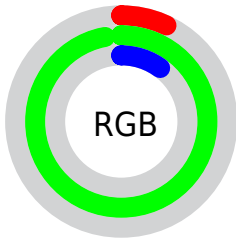
Format	Color
R _Y B	19, 241, 247
Decimal	1308441
CIE Lab	85.37, -83.02, 78.82
CIE LCh	85, 114.479, 136.488
Yxy	66.7302, 0.2997, 0.5934
Android (android.graphics.Color)	4279498521 (0xFF13F719)
YUV	153.5200, -63.3604, -117.9740
Hunter-Lab	81.6886, -69.3056, 48.4553

Details

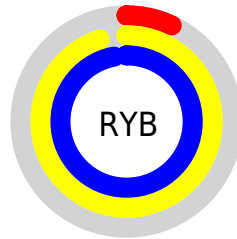
The XYZ color **33.7048, 66.7302, 12.0235** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **54.4672, 26.5907, 85.4695**, and the grayscale version is **30.7958, 32.3996, 35.2831**.

A 20% lighter version of the original color is **45.7103, 76.3949, 23.8918**, and **18.1976, 36.3952, 6.0659** is the 20% darker color. If you saturate the color by 10%, you get **33.2979, 66.5385, 11.2755**, and if you desaturate by 10%, it is **34.8438, 67.2754, 14.0622**.

Distribution



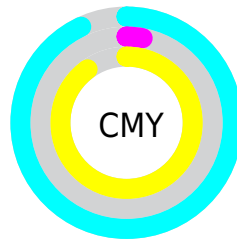
- Red (7%)
- Green (97%)
- Blue (10%)



- Red (7%)
- Yellow (95%)
- Blue (97%)



- Cyan (92%)
- Magenta (0%)
- Yellow (90%)
- Black (3%)





- Cyan (93%)
- Magenta (3%)
- Yellow (90%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 33.7048, 66.7302, 12.0235 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 33.7048, 66.7302, 12.0235 by changing the saturation by 10% instead.


 33.7048, 66.7302,
12.0235


 33.7048, 66.7302,
12.0235


310.4229,
448.9838, 215.5442


 22.8287, 48.8654,
6.6369


 64.8217, 114.5337,
30.2029

 14.5871, 34.5127,
3.1611


 85.7932, 145.2413,
43.8329


 8.6145, 23.2878,
1.1775

 110.8606,
180.9985, 61.0478


 4.5457, 14.8061,
0.0000

 140.3892,
222.1898, 82.2660

 2.0153, 8.6834,
0.0000

 174.7444,
269.1996, 107.9063

 0.6425, 4.5353,
0.0000

 214.2915,

 0.0000, 1.9773,

322.4122, 138.3870

0.0000

259.3959,
382.2122, 174.1268

■ 0.0000, 0.5942,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 33.7048, 66.7302,
12.0235

■ 33.7048, 66.7302,
12.0235


■ 33.2979, 66.5385,
11.2755

■ 34.8438, 67.2754,
14.0622


■ 36.8805, 68.2502,
17.5532


■ 39.9519, 69.7228,
22.7015


■ 44.1706, 71.7476,
29.6781

 49.6347, 74.3719,
38.6327

 56.4318, 77.6380,
49.6998

 64.6413, 81.5843,
63.0017

 74.3369, 86.2461,
78.6519

 85.5867, 91.6566,
96.7558

Harmonies

Analogous

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



50.3021, 66.7302, 3.7378



33.7048, 66.7302, 12.0235



26.2517, 66.7302, 44.1428

Triad

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



33.7048, 66.7302, 12.0235



52.4752, 66.7302, 318.6687



124.2443, 66.7302, 39.2025

Complementary

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



33.7048, 66.7302, 12.0235



54.4672, 26.5907, 85.4695

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.



125.2962, 66.7302, 111.3843



33.7048, 66.7302, 12.0235



78.6522, 66.7302, 313.5549

Square

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



33.7048, 66.7302, 12.0235



34.9201, 66.7302, 233.1802



106.8853, 66.7302, 221.9591



104.3140, 66.7302, 10.5116

Rectangle

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



33.7048, 66.7302, 12.0235



25.6670, 66.7302, 90.0138



106.8853, 66.7302, 221.9591



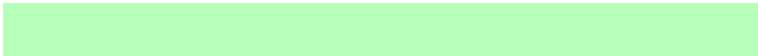
126.9736, 66.7302, 57.6899

Sweetspot

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



33.7064, 66.7330, 12.0250



64.2397, 85.1843, 59.2242



70.4124, 85.6623, 13.4394



12.9751, 17.8605, 11.4193



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.



33.7064, 66.7330, 12.0250



35.7969, 71.5348, 12.1142



38.0319, 68.4632, 34.8028



16.2999, 18.4791, 17.5979



17.6174, 35.1918, 6.0053



1.5545, 3.0955, 0.5600

Inverse Universe

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



54.4672, 26.5907, 85.4695



58.2250, 28.0540, 91.3716



42.5681, 21.8311, 22.8096



17.1936, 16.7603, 20.7662



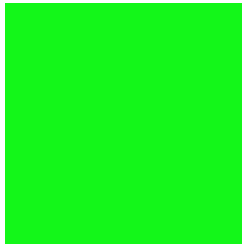
28.6509, 13.8038, 44.9974



2.5240, 1.2156, 3.9858

Previews

White Background



This preview shows how the XYZ color 33.7048, 66.7302, 12.0235 looks on a white background.

Color Contrast Check

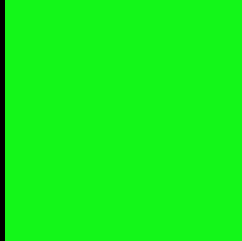
Large Text (above 18pt) WCAG AA × Fail

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 33.7048, 66.7302, 12.0235 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

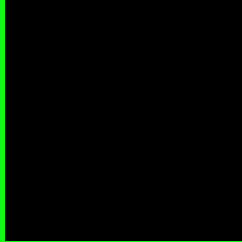
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 33.7048, 66.7302, 12.0235

Background



This preview shows how black text looks on a background with the XYZ color 33.7048, 66.7302, 12.0235.



This preview shows how white text looks on a background with the XYZ color 33.7048, 66.7302,

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

33.7048, 66.7302, 12.0235

Protanopia

58.8198, 65.2707, 9.5845

Deuteranopia

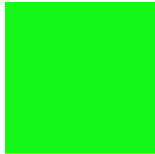
65.5766, 65.1641, 24.7445



Tritanopia

51.0658, 66.3742, 98.9270

Trichromacy



Original Color

33.7048, 66.7302, 12.0235



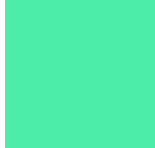
Protanomaly

41.0862, 61.1437, 9.9531



Deuteranomaly

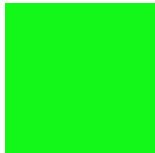
43.1789, 59.6921, 17.0305



Tritanomaly

39.7945, 64.2368, 46.8608

Monochromacy



Original Color

33.7048, 66.7302, 12.0235



Achromatopsia

30.7148, 32.3143, 35.1903



Achromatomaly

26.4628, 40.0312, 20.2420

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.7048, 66.7302, 12.0235 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(19, 247, 25)` looks like.

```
.text, #text, p{  
    color:rgb(19, 247, 25)  
}
```

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(19, 247, 25) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(19, 247, 25) }
```

Border

The CSS property to change the border of an element to XYZ 33.7048, 66.7302, 12.0235 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(19, 247, 25) }
```


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

```
.border{ border-color:rgb(19, 247, 25) }
```

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

Here you see how a box with a 4 pixel rgb(19, 247, 25) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(19, 247, 25); -webkit-box-  
shadow:4px 4px 4px 4px rgb(19, 247, 25);  
box-shadow:4px 4px 4px 4px rgb(19, 247,  
25) }
```

Background

The CSS property to change the background color of an element to XYZ 33.7048, 66.7302, 12.0235 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(19, 247, 25) }
```

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

```
.background{ background-color: rgb(19, 247,  
25) }
```

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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