

Converting Colors

XYZ(37.8219, 72.5025, 15.6525)

Have a look what the booklet for
XYZ(37.8219, 72.5025, 15.6525)
contains.

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Color

**XYZ(37.8148, 72.4996,
15.6152)**

Conversions

Conversions Part 1

Format	Color
Hex	33FF37
RGB	51, 255, 55
RGB Percent	20%, 100%, 22%
CMY	0.8000, 0.0000, 0.7843
CMYK	0.80, 0.00, 0.78, 0.00
HSL	121°, 100%, 60%
HSV	121°, 80%, 100%
XYZ	37.8148, 72.4996, 15.6152
YIQ	171.2040, -57.3840, -105.4480

Conversions

Conversions Part 2

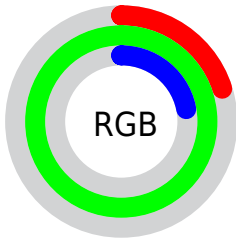
Format	Color
RYB	51, 251, 255
Decimal	3407671
CIELab	88.21, -81.43, 74.98
CIELCh	88, 110.696, 137.361
Yxy	72.4996, 0.3003, 0.5757
Android (android.graphics.Color)	4281597751 (0xFF33FF37)
YUV	171.2040, -57.2886, -105.4189
Hunter-Lab	85.1467, -69.7325, 48.7294

Details

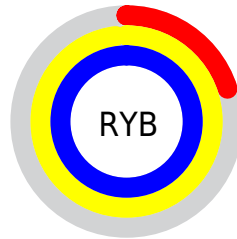
The XYZ color **37.8148, 72.4996, 15.6152** is a dark color, and the websafe version is hex **33FF33**. The color can be described as dark washed green. A complement of this color would be **59.8351, 30.5922, 94.0108**, and the grayscale version is **39.1116, 41.1485, 44.8107**.

A 20% lighter version of the original color is **48.6438, 77.7909, 29.2810**, and **19.7399, 39.4799, 6.5800** is the 20% darker color. If you saturate the color by 10%, you get **36.4078, 71.8269, 13.1741**, and if you desaturate by 10%, it is **40.2287, 73.6564, 19.6878**.

Distribution



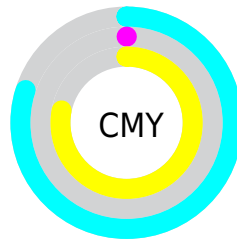
- Red (20%)
- Green (100%)
- Blue (22%)



- Red (20%)
- Yellow (98%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (78%)
- Black (0%)



- Cyan (80%)
- Magenta (0%)
- Yellow (78%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 37.8148, 72.4996, 15.6152 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 37.8148, 72.4996, 15.6152 by changing the saturation by 10% instead.


 37.8148, 72.4996,
15.6152


 37.8148, 72.4996,
15.6152


328.1195,
469.2787, 238.8279

 26.0155, 53.5669,
9.1009


 71.1299, 122.7666,
36.6863

 16.9680, 38.2555,
4.7093


 93.3765, 154.8696,
52.0802


 10.3068, 26.1811,
2.0220


 119.8362,
192.1316, 71.2710

 5.6667, 16.9591,
0.5688

 150.8744,
234.9368, 94.6773

 2.6822, 10.2054,
0.0000

 186.8565,
283.6697, 122.7176

 0.9880, 5.5353,
0.0000

228.1478,

 0.0000, 2.5647,

338.7148, 155.8104

0.0000

275.1137,
400.4563, 194.3744

■ 0.0000, 0.9089,
0.0000

■ 0.0000, 0.0000,
0.0000

■ 37.8148, 72.4996,
15.6152

■ 37.8148, 72.4996,
15.6152

■ 36.4078, 71.8269,
13.1741

■ 40.2287, 73.6564,
19.6878

■ 35.7875, 71.5310,
12.0646

■ 43.7897, 75.3649,
25.6054

■ 35.7875, 71.5310,
12.0646

■ 48.6168, 77.6824,
33.5530

■ 54.8137, 80.6591,
43.6922

■ 62.4737, 84.3397,
56.1684

■ 71.6817, 88.7653,
71.1146

■ 82.5161, 93.9737,
88.6536

95.0500, 100.0000,
108.9000

Harmonies

Analogous

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



54.7974, 72.4996, 5.5190



37.8148, 72.4996, 15.6152



30.1931, 72.4996, 51.1246

Triad

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



37.8148, 72.4996, 15.6152



58.3515, 72.4996, 324.0509



129.8681, 72.4996, 42.9164

Complementary

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



37.8148, 72.4996, 15.6152



59.8351, 30.5922, 94.0108

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.



131.5326, 72.4996, 115.3627



37.8148, 72.4996, 15.6152



85.2557, 72.4996, 316.1399

Square

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



37.8148, 72.4996, 15.6152



39.8392, 72.4996, 242.2690



113.5914, 72.4996, 224.7580



109.4999, 72.4996, 12.9036

Rectangle

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



37.8148, 72.4996, 15.6152



29.7256, 72.4996, 99.1473



113.5914, 72.4996, 224.7580



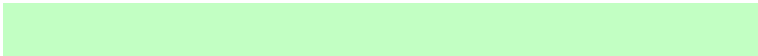
132.7902, 72.4996, 61.6833

Sweetspot

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



37.8151, 72.4997, 15.6164



67.8075, 86.9031, 64.8315



76.3577, 92.3799, 16.9386



13.8210, 18.2680, 12.7522



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.



37.8151, 72.4997, 15.6164



35.9740, 71.6203, 12.3804



43.1600, 74.6377, 43.7622



17.7861, 20.1740, 19.1764



18.7060, 37.3790, 6.3369



1.8262, 3.6414, 0.6426

Inverse Universe

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



59.8351, 30.5922, 94.0108



58.6358, 28.3955, 92.9888



47.8967, 25.8168, 31.1444



18.7764, 18.2939, 22.7055



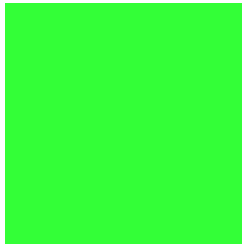
30.5712, 14.7178, 48.5198



2.9813, 1.4349, 4.7491

Previews

White Background



This preview shows how the XYZ color 37.8148, 72.4996, 15.6152 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 37.8148, 72.4996, 15.6152 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

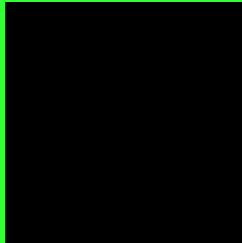
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 37.8148, 72.4996, 15.6152

Background



This preview shows how black text looks on a background with the XYZ color 37.8148, 72.4996, 15.6152.

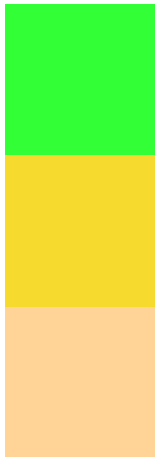


This preview shows how white text looks on a background with the XYZ color 37.8148, 72.4996,

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

37.8148, 72.4996, 15.6152

Protanopia

63.8307, 70.4531, 12.8193

Deuteranopia

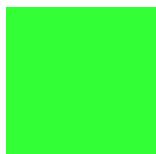
70.2885, 70.5490, 38.7669



Tritanopia

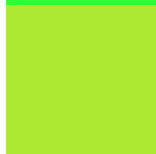
56.5026, 71.9993, 105.5270

Trichromacy



Original Color

37.8148, 72.4996, 15.6152



Protanomaly

47.0902, 67.0489, 13.3656



Deuteranomaly

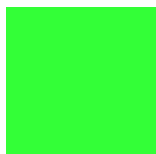
49.8940, 66.5484, 26.4351



Tritanomaly

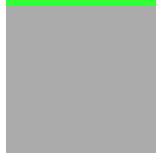
45.7239, 70.6202, 55.4771

Monochromacy



Original Color

37.8148, 72.4996, 15.6152



Achromatopsia

38.7082, 40.7240, 44.3485



Achromatomaly

33.8354, 48.3381, 28.3157

CSS Examples

Text

The CSS property to change the color of the text to XYZ 37.8148, 72.4996, 15.6152 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(51, 255, 55)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 55)  
}
```

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(51, 255, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 55) }
```

Border

The CSS property to change the border of an element to XYZ 37.8148, 72.4996, 15.6152 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(51, 255, 55) }
```


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

```
.border{ border-color:rgb(51, 255, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 255, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 55);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
55) }
```

Background

The CSS property to change the background color of an element to XYZ 37.8148, 72.4996, 15.6152 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 55) }
```

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

```
.background{ background-color: rgb(51, 255,  
55) }
```

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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