

Converting Colors

XYZ(31.3207, 49.8872, 10.1957)

Have a look what the booklet for
XYZ(31.3207, 49.8872, 10.1957)
contains.

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Color

**XYZ(31.3868, 49.9790,
10.1832)**

Conversions

Conversions Part 1

Format	Color
Hex	7BD12A
RGB	123, 209, 42
RGB Percent	48%, 82%, 16%
CMY	0.5176, 0.1804, 0.8353
CMYK	0.41, 0.00, 0.80, 0.18
HSL	91°, 67%, 49%
HSV	91°, 80%, 82%
XYZ	31.3868, 49.9790, 10.1832
YIQ	164.2480, 2.3510, -70.1690

Conversions

Conversions Part 2

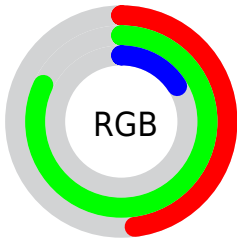
Format	Color
R_{YB}	42, 209, 128
Decimal	8114474
CIE _{Lab}	76.06, -51.20, 67.93
CIE _{LCh}	76, 85.065, 127.002
Yxy	49.9790, 0.3428, 0.5459
Android (android.graphics.Color)	4286304554 (0xFF7BD12A)
YUV	164.2480, -60.2683, -36.1745
Hunter-Lab	70.6958, -44.4691, 40.9468

Details

The XYZ color **31.3868, 49.9790, 10.1832** is a dark color, and the websafe version is hex **66CC33**. The color can be described as dark washed chartreuse. A complement of this color would be **21.2413, 10.8503, 61.2991**, and the grayscale version is **35.6839, 37.5423, 40.8835**.

A 20% lighter version of the original color is **57.2143, 82.3031, 25.4409**, and **13.6055, 24.1680, 3.9478** is the 20% darker color. If you saturate the color by 10%, you get **29.6501, 49.1178, 8.6327**, and if you desaturate by 10%, it is **33.4901, 51.0098, 12.7700**.

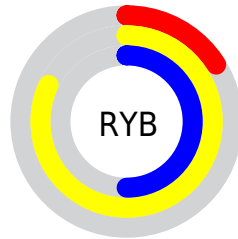
Distribution



Red (48%)

Green (82%)

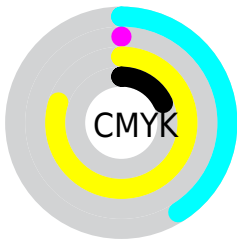
Blue (16%)



Red (16%)

Yellow (82%)

Blue (50%)

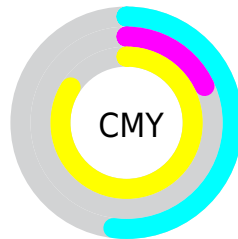


Cyan (41%)

Magenta (0%)

Yellow (80%)

Black (18%)



Cyan (52%)


Magenta (18%)


Yellow (84%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.3868, 49.9790, 10.1832 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 31.3868, 49.9790, 10.1832 by changing the saturation by 10% instead.


 31.3868, 49.9790,
10.1832


 31.3868, 49.9790,
10.1832


300.1115,
386.5838, 202.5067

 21.0468, 35.3967,
5.4134


 61.2202, 90.1438,
26.7527

 13.2709, 23.9686,
2.4289


 81.4444, 116.4950,
39.3895


 7.6936, 15.3104,
0.8021


 105.6941,
147.5381, 55.4857

 3.9497, 9.0375,
0.0000

 134.3345,
183.6573, 75.4598

 1.6737, 4.7656,
0.0000

 167.7311,
225.2371, 99.7305

 0.4397, 2.1104,
0.0000

 206.2493,

 0.0000, 0.6705,

272.6618, 128.7161

0.0000

250.2543,
326.3159, 162.8354

■ 0.0000, 0.0000,
0.0000

■ 31.3868, 49.9790,
10.1832

■ 31.3868, 49.9790,
10.1832

■ 29.6501, 49.1178,
8.6327

■ 33.4901, 51.0098,
12.7700

■ 28.2225, 48.3975,
7.8601


■ 35.9883, 52.2170,
16.5305


■ 28.2093, 48.3908,
7.8536


■ 38.9100, 53.6144,
21.5843

■ 42.2798, 55.2123,
28.0357

■ 46.1200, 57.0201,
35.9780

 50.4511, 59.0467,
45.4968

 55.2925, 61.3003,
56.6710

 60.6623, 63.7884,
69.5743

 66.5775, 66.5186,
84.2759

Harmonies

Analogous

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



43.8759, 49.9790, 5.5796



31.3868, 49.9790, 10.1832



24.5651, 49.9790, 26.8916

Triad

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



31.3868, 49.9790, 10.1832



36.5387, 49.9790, 181.2320



84.7373, 49.9790, 44.4347

Complementary

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



31.3868, 49.9790, 10.1832



21.2413, 10.8503, 61.2991

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.



81.5417, 49.9790, 96.2627



31.3868, 49.9790, 10.1832



51.3258, 49.9790, 195.6531

Square

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



31.3868, 49.9790, 10.1832



27.0434, 49.9790, 125.8895



68.3650, 49.9790, 158.4721



76.3184, 49.9790, 16.9187

Rectangle

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



31.3868, 49.9790, 10.1832



23.0594, 49.9790, 49.9688



68.3650, 49.9790, 158.4721



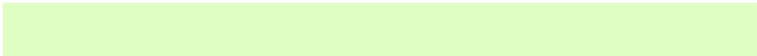
85.0112, 49.9790, 59.1251

Sweetspot

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



31.3880, 49.9812, 10.1843



76.0552, 91.1706, 64.5104



34.1116, 28.5189, 5.8981



15.7622, 19.2723, 12.6796



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.



31.3880, 49.9812, 10.1843



44.8580, 76.2037, 12.6374



24.1747, 46.2626, 9.8467



12.1942, 13.4836, 12.5719



17.5052, 29.8932, 4.8473



1.0702, 1.7186, 0.2753

Inverse Universe

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



21.2413, 10.8503, 61.2991



28.3586, 12.6986, 95.5642



38.6331, 19.8161, 62.1130



11.7360, 11.7127, 14.8859



10.9961, 4.8490, 37.5489



0.7063, 0.3183, 2.1038

Previews

White Background



This preview shows how the XYZ color 31.3868, 49.9790, 10.1832 looks on a white background.

Color Contrast Check

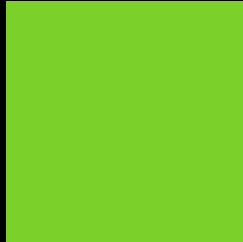
Large Text (above 18pt) WCAG AA × Fail

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 31.3868, 49.9790, 10.1832 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

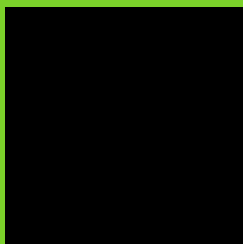
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.3868, 49.9790, 10.1832

Background



This preview shows how black text looks on a background with the XYZ color 31.3868, 49.9790, 10.1832.



This preview shows how white text looks on a background with the XYZ color 31.3868, 49.9790,

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

31.3868, 49.9790, 10.1832

Protanopia

44.6671, 49.3697, 8.8442

Deuteranopia

50.4175, 49.2422, 10.8504



Tritanopia

43.0020, 49.7943, 68.3176

Trichromacy



Original Color

31.3868, 49.9790, 10.1832

Protanomaly

38.2251, 48.6351, 9.2066

Deuteranomaly

41.0656, 48.1125, 10.3711

Tritanomaly

36.5603, 48.8818, 35.9420

Monochromacy



Original Color

31.3868, 49.9790, 10.1832

Achromatopsia

35.2861, 37.1238, 40.4278

Achromatomaly

32.1058, 40.3881, 23.8728

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.3868, 49.9790, 10.1832 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(123, 209, 42)` looks like.

```
.text, #text, p{  
    color:rgb(123, 209, 42)  
}
```

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(123, 209, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 209, 42) }
```

Border

The CSS property to change the border of an element to XYZ 31.3868, 49.9790, 10.1832 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(123, 209, 42) }
```


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

```
.border{ border-color:rgb(123, 209, 42) }
```

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

Here you see how a box with a 4 pixel rgb(123, 209, 42) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 209, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 209, 42);  
box-shadow:4px 4px 4px 4px rgb(123, 209,  
42) }
```

Background

The CSS property to change the background color of an element to XYZ 31.3868, 49.9790, 10.1832 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 209, 42) }
```

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

```
.background{ background-color: rgb(123,  
209, 42) }
```

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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