

Converting Colors

XYZ(31.2361, 49.8847, 12.6493)

Have a look what the booklet for
XYZ(31.2361, 49.8847, 12.6493)
contains.

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Color

**XYZ(31.1689, 49.8114,
12.6744)**

Conversions

Conversions Part 1

Format	Color
Hex	76D13F
RGB	118, 209, 63
RGB Percent	46%, 82%, 25%
CMY	0.5373, 0.1804, 0.7529
CMYK	0.44, 0.00, 0.70, 0.18
HSL	97°, 61%, 53%
HSV	97°, 70%, 82%
XYZ	31.1689, 49.8114, 12.6744
YIQ	165.1470, -7.3700, -64.6980

Conversions

Conversions Part 2

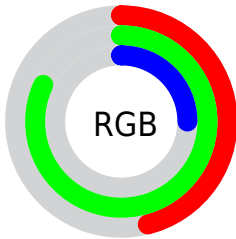
Format	Color
RYB	63, 209, 154
Decimal	7786815
CIELab	75.95, -51.55, 60.89
CIELCh	76, 79.781, 130.254
Yxy	49.8114, 0.3328, 0.5319
Android (android.graphics.Color)	4285976895 (0xFF76D13F)
YUV	165.1470, -50.3585, -41.3479
Hunter-Lab	70.5772, -44.6794, 38.7566

Details

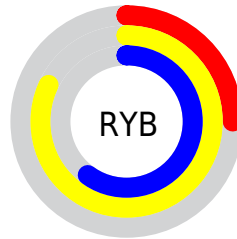
The XYZ color **31.1689, 49.8114, 12.6744** is a dark color, and the websafe version is hex **66CC33**. The color can be described as dark muted chartreuse. A complement of this color would be **26.6152, 15.0302, 61.8228**, and the grayscale version is **36.0728, 37.9514, 41.3291**.

A 20% lighter version of the original color is **56.9345, 82.0581, 29.9776**, and **13.3005, 24.0107, 3.9335** is the 20% darker color. If you saturate the color by 10%, you get **29.0438, 48.7726, 10.0836**, and if you desaturate by 10%, it is **33.7624, 51.0692, 16.4460**.

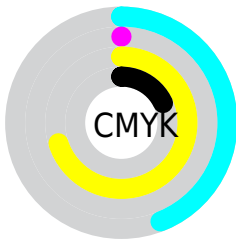
Distribution



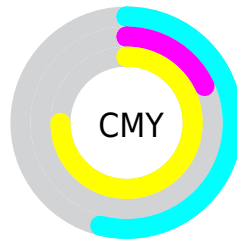
- Red (46%)
- Green (82%)
- Blue (25%)



- Red (25%)
- Yellow (82%)
- Blue (60%)



- Cyan (44%)
- Magenta (0%)
- Yellow (70%)
- Black (18%)




- Cyan (54%)
- Magenta (18%)
- Yellow (75%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 31.1689, 49.8114, 12.6744 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 31.1689, 49.8114, 12.6744 by changing the saturation by 10% instead.


 31.1689, 49.8114,
12.6744


 31.1689, 49.8114,
12.6744


299.1287,
385.9279, 219.9543


 20.8800, 35.2636,
7.0766


 60.8799, 89.8954,
31.4001


 13.1482, 23.8660,
3.4309


 81.0327, 116.2003,
45.3652


 7.6084, 15.2342,
1.3186


 105.2042,
147.1931, 62.9564

 3.8951, 8.9839,
0.0770

 133.7596,
183.2580, 84.5924

 1.6430, 4.7307,
0.0000

 167.0644,
224.7796, 110.6916

 0.4202, 2.0901,
0.0000

205.4840,

 0.0000, 0.6591,

272.1422, 141.6727

0.0000

249.3836,
325.7302, 177.9541

■ 0.0000, 0.0000,
0.0000

■ 31.1689, 49.8114,
12.6744

■ 31.1689, 49.8114,
12.6744

■ 29.0438, 48.7726,
10.0836

■ 33.7624, 51.0692,
16.4460

■ 27.3469, 47.9304,
8.5296

■ 36.8526, 52.5533,
21.5138


■ 26.0207, 47.2624,
7.7598


■ 40.4693, 54.2783,
27.9832


■ 26.0034, 47.2537,
7.7504

■ 44.6387, 56.2557,
35.9479

■ 49.3849, 58.4961,
45.4935

 54.7308, 61.0095,
56.6990

 60.6976, 63.8053,
69.6383

 67.3058, 66.8925,
84.3806

 74.5745, 70.2795,
100.9916

Harmonies

Analogous

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



42.4349, 49.8114, 6.9774



31.1689, 49.8114, 12.6744



25.2117, 49.8114, 31.0104

Triad

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



31.1689, 49.8114, 12.6744



38.3274, 49.8114, 173.5626



81.4174, 49.8114, 40.9270

Complementary

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



31.1689, 49.8114, 12.6744



26.6152, 15.0302, 61.8228

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.



79.6726, 49.8114, 86.8675



31.1689, 49.8114, 12.6744



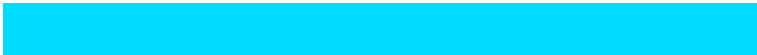
52.6183, 49.8114, 181.2890

Square

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



31.1689, 49.8114, 12.6744



28.7054, 49.8114, 126.2136



68.3254, 49.8114, 143.7948



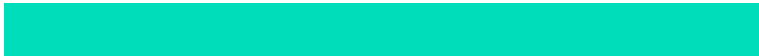
72.6867, 49.8114, 16.6674

Rectangle

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



31.1689, 49.8114, 12.6744



24.1235, 49.8114, 54.6006



68.3254, 49.8114, 143.7948



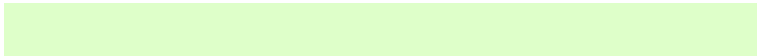
82.0742, 49.8114, 53.8733

Sweetspot

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



31.1701, 49.8135, 12.6755



76.3639, 91.2281, 69.1203



38.5905, 36.7098, 9.7551



15.8878, 19.3110, 13.8660



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.



31.1701, 49.8135, 12.6755



44.1100, 75.7788, 14.3815



26.3011, 47.2397, 15.3288



12.0711, 13.4201, 12.5662



16.1333, 29.1860, 4.7831



0.9891, 1.6768, 0.2715

Inverse Universe

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



26.6152, 15.0302, 61.8228



36.3619, 17.8270, 96.1322



37.5847, 20.9160, 51.9086



11.8613, 11.7774, 14.8918



12.9104, 5.8358, 37.6385



0.8084, 0.3709, 2.1086

Previews

White Background



This preview shows how the XYZ color 31.1689, 49.8114, 12.6744 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 31.1689, 49.8114, 12.6744 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

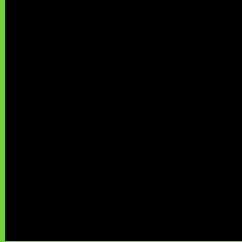
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 31.1689, 49.8114, 12.6744

Background



This preview shows how black text looks on a background with the XYZ color 31.1689, 49.8114, 12.6744.



This preview shows how white text looks on a background with the XYZ color 31.1689, 49.8114,

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

31.1689, 49.8114, 12.6744

Protanopia

44.5919, 48.9685, 10.9725

Deuteranopia

49.9132, 48.9276, 13.2918



Tritanopia

42.4283, 49.4841, 68.9432

Trichromacy



Original Color

31.1689, 49.8114, 12.6744



Protanomaly

37.9857, 48.1294, 11.4255



Deuteranomaly

40.5383, 47.7845, 12.8811



Tritanomaly

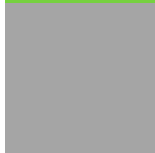
36.4129, 48.7294, 39.3848

Monochromacy



Original Color

31.1689, 49.8114, 12.6744



Achromatopsia

35.7637, 37.6262, 40.9749



Achromatomaly

32.6329, 40.9022, 26.5970

CSS Examples

Text

The CSS property to change the color of the text to XYZ 31.1689, 49.8114, 12.6744 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(118, 209, 63)` looks like.

```
.text, #text, p{  
    color:rgb(118, 209, 63)  
}
```

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(118, 209, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 209, 63) }
```

Border

The CSS property to change the border of an element to XYZ 31.1689, 49.8114, 12.6744 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(118, 209, 63) }
```


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

```
.border{ border-color:rgb(118, 209, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 209, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 209, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 209, 63);  
box-shadow:4px 4px 4px 4px rgb(118, 209,  
63) }
```

Background

The CSS property to change the background color of an element to XYZ 31.1689, 49.8114, 12.6744 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 209, 63) }
```

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

```
.background{ background-color: rgb(118,  
209, 63) }
```

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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