

Converting Colors

XYZ(31.1140, 49.6021, 10.0938)

Have a look what the booklet for
XYZ(31.1140, 49.6021, 10.0938)
contains.

XYZ(30.9998, 49.4165, 10.0950)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(30.9998, 49.4165,
10.0950)**

Conversions

Conversions Part 1

Format	Color
Hex	7AD02A
RGB	122, 208, 42
RGB Percent	48%, 82%, 16%
CMY	0.5216, 0.1843, 0.8353
CMYK	0.41, 0.00, 0.80, 0.18
HSL	91°, 66%, 49%
HSV	91°, 80%, 82%
XYZ	30.9998, 49.4165, 10.0950
YIQ	163.3620, 2.0300, -69.8580

Conversions

Conversions Part 2

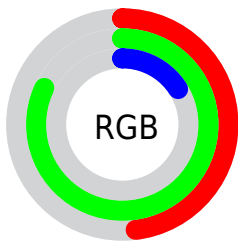
Format	Color
R_{YB}	42, 208, 128
Decimal	8048682
CIE Lab	75.71, -51.13, 67.60
CIE LCh	76, 84.757, 127.101
Yxy	49.4165, 0.3425, 0.5460
Android (android.graphics.Color)	4286238762 (0xFF7AD02A)
YUV	163.3620, -59.8315, -36.2745
Hunter-Lab	70.2969, -44.3039, 40.6935

Details

The XYZ color **30.9998, 49.4165, 10.0950** 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 **21.1180, 10.8010, 60.6491**, and the grayscale version is **35.2592, 37.0954, 40.3969**.

A 20% lighter version of the original color is **56.9807, 82.1826, 25.4300**, and **13.3778, 23.8066, 3.8900** is the 20% darker color. If you saturate the color by 10%, you get **29.2778, 48.5628, 8.5501**, and if you desaturate by 10%, it is **33.0864, 50.4390, 12.6665**.

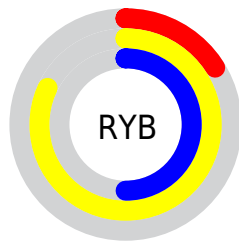
Distribution



Red (48%)

Green (82%)

Blue (16%)



Red (16%)

Yellow (82%)

Blue (50%)

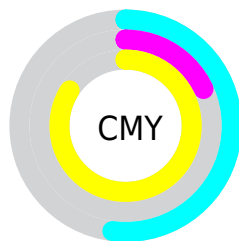


Cyan (41%)

Magenta (0%)

Yellow (80%)

Black (18%)



Cyan (52%)


Magenta (18%)


Yellow (84%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 30.9998, 49.4165, 10.0950 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 30.9998, 49.4165, 10.0950 by changing the saturation by 10% instead.


 30.9998, 49.4165,
10.0950


 30.9998, 49.4165,
10.0950


298.3643,
384.3797, 201.8582


 20.7505, 34.9500,
5.3556


 60.6156, 89.3097,
26.5846


 13.0532, 23.6244,
2.3950


 80.7128, 115.5052,
39.1719


 7.5424, 15.0552,
0.7837


 104.8234,
146.3792, 55.2122

 3.8529, 8.8581,
0.0000

 133.3127,
182.3160, 75.1241

 1.6193, 4.6488,
0.0000

 166.5461,
223.7001, 99.3261

 0.4049, 2.0427,
0.0000

 204.8889,

 0.0000, 0.6321,

270.9158, 128.2368

0.0000

248.7066,
324.3475, 162.2746

■ 0.0000, 0.0000,
0.0000

■ 30.9998, 49.4165,
10.0950

■ 30.9998, 49.4165,
10.0950

■ 29.2778, 48.5628,
8.5501

■ 33.0864, 50.4390,
12.6665

■ 27.8641, 47.8496,
7.7790

■ 35.5656, 51.6370,
16.3999

■ 27.8384, 47.8366,
7.7662

■ 38.4659, 53.0242,
21.4133

■ 41.8114, 54.6108,
27.8096

■ 45.6244, 56.4062,
35.6811

■ 49.9253, 58.4190,
45.1122

■ 54.7331, 60.6576,
56.1808

■ 60.0659, 63.1294,
68.9597

■ 65.9406, 65.8418,
83.5173

Harmonies

Analogous

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



43.3322, 49.4165, 5.5182



30.9998, 49.4165, 10.0950



24.2729, 49.4165, 26.6726

Triad

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



30.9998, 49.4165, 10.0950



36.1667, 49.4165, 179.3486



83.7805, 49.4165, 43.8031

Complementary

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



30.9998, 49.4165, 10.0950



21.1180, 10.8010, 60.6491

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.



80.6590, 49.4165, 94.9841



30.9998, 49.4165, 10.0950



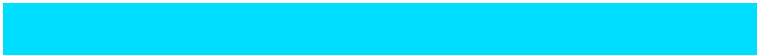
50.8036, 49.4165, 193.4368

Square

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



30.9998, 49.4165, 10.0950



26.7584, 49.4165, 124.6958



67.6523, 49.4165, 156.5241



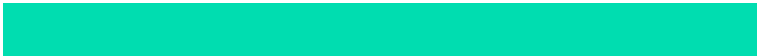
75.4208, 49.4165, 16.6699

Rectangle

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



30.9998, 49.4165, 10.0950



22.7955, 49.4165, 49.5478



67.6523, 49.4165, 156.5241



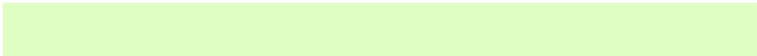
84.0648, 49.4165, 58.3018

Sweetspot

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



31.0009, 49.4186, 10.0961



75.9964, 91.1404, 64.5077



34.1213, 28.9569, 5.9821



15.7481, 19.2651, 12.6790



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.



31.0009, 49.4186, 10.0961



44.7429, 76.1444, 12.6320



23.9814, 45.7940, 10.0351



12.1907, 13.4817, 12.5718



17.4601, 29.8700, 4.8452



1.0677, 1.7173, 0.2752

Inverse Universe

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



21.1180, 10.8010, 60.6491



28.4829, 12.7627, 95.5700



37.8901, 19.4863, 59.6724



11.7396, 11.7146, 14.8861



11.0449, 4.8742, 37.5512



0.7090, 0.3197, 2.1039

Previews

White Background



This preview shows how the XYZ color 30.9998, 49.4165, 10.0950 looks on a white background.

Color Contrast Check

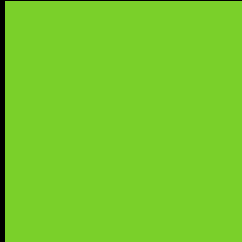
Large Text (above 18pt) WCAG AA × Fail

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 30.9998, 49.4165, 10.0950 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

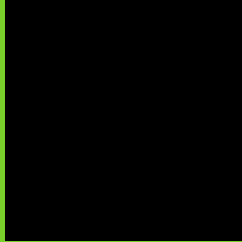
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

XYZ 30.9998, 49.4165, 10.0950

Background



This preview shows how black text looks on a background with the XYZ color 30.9998, 49.4165, 10.0950.



This preview shows how white text looks on a background with the XYZ color 30.9998, 49.4165,

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

30.9998, 49.4165, 10.0950

Protanopia

44.1718, 48.8005, 8.7604

Deuteranopia

49.5678, 48.5120, 10.7542



Tritanopia

42.4775, 49.2068, 67.5807

Trichromacy



Original Color

30.9998, 49.4165, 10.0950



Protanomaly

37.7731, 48.0706, 9.1214



Deuteranomaly

40.3413, 47.4208, 10.2757



Tritanomaly

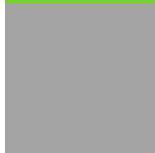
36.0852, 48.3033, 35.4386

Monochromacy



Original Color

30.9998, 49.4165, 10.0950



Achromatopsia

34.8123, 36.6253, 39.8849



Achromatomaly

31.6626, 39.8680, 23.4793

CSS Examples

Text

The CSS property to change the color of the text to XYZ 30.9998, 49.4165, 10.0950 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(122, 208, 42)` looks like.

```
.text, #text, p{  
    color:rgb(122, 208, 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(122, 208, 42) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 208, 42) }
```

Border

The CSS property to change the border of an element to XYZ 30.9998, 49.4165, 10.0950 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(122, 208, 42) }
```


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

```
.border{ border-color:rgb(122, 208, 42) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 208, 42)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 208, 42); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 208, 42);  
box-shadow:4px 4px 4px 4px rgb(122, 208,  
42) }
```

Background

The CSS property to change the background color of an element to XYZ 30.9998, 49.4165, 10.0950 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 208, 42) }
```

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

```
.background{ background-color: rgb(122,  
208, 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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