

# Converting Colors

XYZ(31.5287, 42.2777, 31.2796)

Have a look what the booklet for  
XYZ(31.5287, 42.2777, 31.2796)  
contains.

<b>XYZ(31.6189, 42.4491, 31.3379)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(31.6189, 42.4491,  
31.3379)**

# Conversions

## Conversions Part 1

Format	Color
Hex	80BC8C
RGB	128, 188, 140
RGB Percent	50%, 74%, 55%
CMY	0.4980, 0.2627, 0.4510
CMYK	0.32, 0.00, 0.26, 0.26
HSL	132°, 31%, 62%
HSV	132°, 32%, 74%
XYZ	31.6189, 42.4491, 31.3379
YIQ	164.5880, -20.3520, -27.6480

# Conversions

## Conversions Part 2

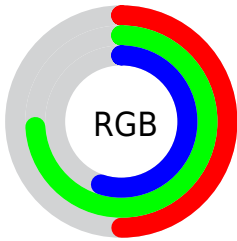
<b>Format</b>	<b>Color</b>
<b>RYB</b>	128, 178, 188
Decimal	8436876
CIELab	71.18, -29.32, 18.26
CIELCh	71, 34.545, 148.089
Yxy	42.4491, 0.3000, 0.4027
Android (android.graphics.Color)	4286626956 (0xFF80BC8C)
YUV	164.5880, -12.1219, -32.0877
Hunter-Lab	65.1530, -27.3912, 17.0892

# Details

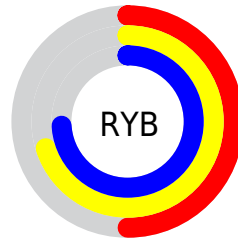
The XYZ color **31.6189, 42.4491, 31.3379** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **36.2961, 29.2652, 44.8117**, and the grayscale version is **35.6309, 37.4865, 40.8228**.

A 20% lighter version of the original color is **61.6814, 79.1449, 63.0645**, and **13.3511, 19.3249, 12.6993** is the 20% darker color. If you saturate the color by 10%, you get **28.0146, 40.7117, 25.7707**, and if you desaturate by 10%, it is **35.9010, 44.5208, 37.7300**.

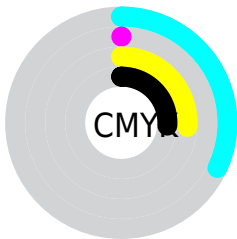
# Distribution



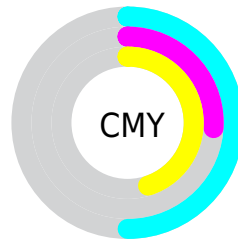
- Red (50%)
- Green (74%)
- Blue (55%)



- Red (50%)
- Yellow (70%)
- Blue (74%)



- Cyan (32%)
- Magenta (0%)
- Yellow (26%)
- Black (26%)




- Cyan (50%)
- Magenta (26%)
- Yellow (45%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.6189, 42.4491, 31.3379 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 31.6189, 42.4491, 31.3379 by changing the saturation by 10% instead.





 31.6189, 42.4491,  
31.3379


 31.6189, 42.4491,  
31.3379


301.1558,  
356.3413, 322.4913


 21.2247, 29.4531,  
20.5957


 61.5824, 78.8789,  
62.8575

 13.4018, 19.4239,  
12.6404


 81.8824, 103.0814,  
84.4719

 7.7847, 11.9769,  
7.0536

 106.2151,  
131.7883, 110.5474

 4.0081, 6.7280,  
3.4167

134.9458,  
165.3839, 141.5027

 1.7067, 3.2926,  
1.3111

168.4398,  
204.2526, 177.7562

 0.4605, 1.2863,  
0.0709

207.0626,

 0.0000, 0.1306,

248.7788, 219.7264

0.0000

251.1795,  
299.3469, 267.8319

■ 0.0000, 0.0000,  
0.0000

■ 31.6189, 42.4491,  
31.3379

■ 31.6189, 42.4491,  
31.3379

■ 28.0146, 40.7117,  
25.7707

■ 35.9010, 44.5208,  
37.7300

■ 25.0497, 39.2860,  
20.9920

■ 40.8900, 46.9375,  
44.9757

■ 22.6869, 38.1546,  
16.9669


■ 46.6176, 49.7161,  
53.1059


■ 20.8838, 37.2964,  
13.6568


■ 53.1122, 52.8708,  
62.1491


■ 19.5921, 36.6875,  
11.0195


■ 60.4010, 56.4149,  
72.1325

 18.7549, 36.2996,  
9.0086

 68.5097, 60.3611,  
83.0822

 18.3275, 36.1055,  
7.8033

 75.7488, 63.8380,  
94.9429

 77.2741, 64.4481,  
102.9747

# Harmonies

## Analogous

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



35.3309, 42.4491, 23.4205



31.6189, 42.4491, 31.3379



30.2160, 42.4491, 45.1650

# Triad

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



31.6189, 42.4491, 31.3379



39.9766, 42.4491, 85.9462



50.9811, 42.4491, 32.7804

# Complementary

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



31.6189, 42.4491, 31.3379



36.2961, 29.2652, 44.8117

# 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.



52.5209, 42.4491, 47.2910



31.6189, 42.4491, 31.3379



45.8158, 42.4491, 80.4202

# Square

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



31.6189, 42.4491, 31.3379



34.7458, 42.4491, 78.8922



50.5485, 42.4491, 65.1949



46.5191, 42.4491, 24.1026



# Rectangle

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



31.6189, 42.4491, 31.3379



30.6666, 42.4491, 56.8373



50.5485, 42.4491, 65.1949



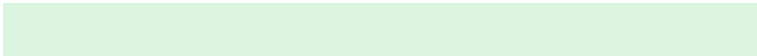
51.8753, 42.4491, 37.0146

# Sweetspot

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



31.6200, 42.4509, 31.3388



75.8242, 85.8975, 83.9723



39.7856, 46.7571, 27.3505



16.0081, 18.3276, 17.6318



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

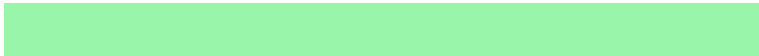


# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



31.6200, 42.4509, 31.3388



52.7907, 74.7544, 49.8661



34.1423, 43.4598, 44.6208



9.4847, 10.6800, 10.5360



12.4995, 24.5901, 5.4272



0.5131, 0.9726, 0.3364



# Inverse Universe

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



36.2961, 29.2652, 44.8117



62.5326, 47.2621, 77.9186



33.6477, 28.2058, 30.8657



9.8460, 9.6627, 11.5778



17.9172, 8.7980, 20.6552



0.7230, 0.3531, 0.9206



# Previews

## White Background



This preview shows how the XYZ color 31.6189, 42.4491, 31.3379 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 31.6189, 42.4491, 31.3379 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

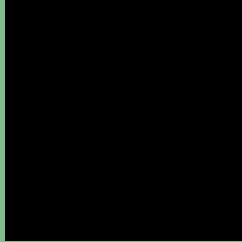
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 31.6189, 42.4491, 31.3379**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.6189, 42.4491, 31.3379.



This preview shows how white text looks on a background with the XYZ color 31.6189, 42.4491,



# 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

31.6189, 42.4491, 31.3379

### Protanopia

39.1848, 41.8949, 28.2116

### Deuteranopia

42.7490, 41.9611, 32.6343



## Tritanopia

37.0217, 42.4768, 57.8774

# Trichromacy



## Original Color

31.6189, 42.4491, 31.3379

## Protanomaly

35.6742, 41.5109, 29.4247

## Deuteranomaly

37.7435, 41.6418, 32.0350

## Tritanomaly

34.8700, 42.5270, 46.9281

# Monochromacy



## Original Color

31.6189, 42.4491, 31.3379

## Achromatopsia

35.7637, 37.6262, 40.9749

## Achromatomaly

33.8932, 38.9628, 37.1867

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.6189, 42.4491, 31.3379 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(128, 188, 140)` looks like.

```
.text, #text, p{  
    color:rgb(128, 188, 140)  
}
```

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(128, 188, 140) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 188, 140) }
```

## Border

The CSS property to change the border of an element to XYZ 31.6189, 42.4491, 31.3379 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(128, 188, 140) }
```



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

```
.border{ border-color:rgb(128, 188, 140) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 188, 140)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 188, 140); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 188, 140);  
box-shadow:4px 4px 4px 4px rgb(128, 188,  
140) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.6189, 42.4491, 31.3379 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 188, 140) }
```

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

```
.background{ background-color: rgb(128,  
188, 140) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor