

# Converting Colors

XYZ(31.8032, 42.1586, 39.9842)

Have a look what the booklet for  
XYZ(31.8032, 42.1586, 39.9842)  
contains.

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# Color

**XYZ(31.8111, 42.0358,  
40.1553)**

# Conversions

## Conversions Part 1

Format	Color
Hex	77BBA1
RGB	119, 187, 161
RGB Percent	47%, 73%, 63%
CMY	0.5333, 0.2667, 0.3686
CMYK	0.36, 0.00, 0.14, 0.27
HSL	157°, 33%, 60%
HSV	157°, 36%, 73%
XYZ	31.8111, 42.0358, 40.1553
YIQ	163.7040, -32.1820, -22.5020

# Conversions

## Conversions Part 2

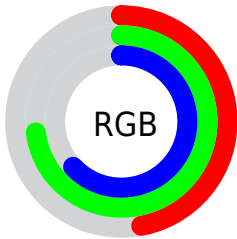
<b>Format</b>	<b>Color</b>
<b>RYB</b>	119, 161, 187
Decimal	7846817
CIELab	70.90, -27.40, 6.40
CIElCh	71, 28.137, 166.862
Yxy	42.0358, 0.2790, 0.3687
Android (android.graphics.Color)	4286036897 (0xFF77BBA1)
YUV	163.7040, -1.3331, -39.2054
Hunter-Lab	64.8350, -25.8808, 8.6635

# Details

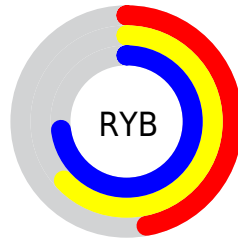
The XYZ color **31.8111, 42.0358, 40.1553** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **32.2026, 25.8039, 30.0731**, and the grayscale version is **35.1640, 36.9952, 40.2878**.

A 20% lighter version of the original color is **61.6788, 77.9433, 76.7595**, and **13.3946, 19.0374, 17.4366** is the 20% darker color. If you saturate the color by 10%, you get **28.8804, 40.5969, 36.8206**, and if you desaturate by 10%, it is **35.2852, 43.7529, 43.7055**.

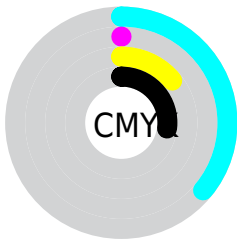
# Distribution



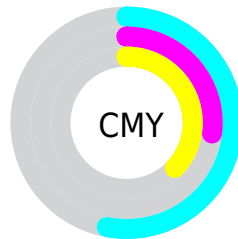
- Red (47%)
- Green (73%)
- Blue (63%)



- Red (47%)
- Yellow (63%)
- Blue (73%)



- Cyan (36%)
- Magenta (0%)
- Yellow (14%)
- Black (27%)



- Cyan (53%)
- Magenta (27%)
- Yellow (37%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.8111, 42.0358, 40.1553 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 31.8111, 42.0358, 40.1553 by changing the saturation by 10% instead.



■ 31.8111, 42.0358,  
40.1553

■ 31.8111, 42.0358,  
40.1553

302.0185,  
354.6313, 362.3492

■ 21.3721, 29.1293,  
27.3449

■ 61.8820, 78.2538,  
76.6396

■ 13.5103, 19.1787,  
17.5977

■ 82.2447, 102.3341,  
101.1507

■ 7.8603, 11.7995,  
10.4951

■ 106.6459,  
130.9078, 130.3990

■ 4.0567, 6.6073,  
5.6186

135.4511,  
164.3594, 164.8032

■ 1.7343, 3.2177,  
2.5496

169.0256,  
203.0731, 204.7818

■ 0.4776, 1.2464,  
0.8662

207.7347,

■ 0.0000, 0.0991,

247.4334, 250.7533

0.0000

251.9439,  
297.8247, 303.1363

■ 0.0000, 0.0000,  
0.0000

■ 31.8111, 42.0358,  
40.1553

■ 31.8111, 42.0358,  
40.1553

■ 28.8804, 40.5969,  
36.8206

■ 35.2852, 43.7529,  
43.7055

■ 26.4592, 39.4154,  
33.6940

■ 39.3271, 45.7574,  
47.4727

■ 24.5151, 38.4759,  
30.7717

■ 43.9639, 48.0642,  
51.4621

■ 23.0107, 37.7590,  
28.0487

■ 49.2198, 50.6859,  
55.6776

■ 21.9020, 37.2423,  
25.5196

■ 55.1179, 53.6342,  
60.1232

■ 21.1320, 36.8964,  
23.1781

■ 61.6797, 56.9202,  
64.8027

■ 20.8943, 36.7915,  
22.3705

■ 68.9261, 60.5545,  
69.7198

■ 71.6929, 61.8749,  
74.6355

■ 72.6504, 62.2579,  
79.6773

# Harmonies

## Analogous

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



33.7369, 42.0358, 30.3050



31.8111, 42.0358, 40.1553



31.9414, 42.0358, 53.6650

# Triad

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



31.8111, 42.0358, 40.1553



42.6230, 42.0358, 75.1495



46.4320, 42.0358, 29.4135

# Complementary

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



31.8111, 42.0358, 40.1553



32.2026, 25.8039, 30.0731

# 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.



49.2051, 42.0358, 38.6897



31.8111, 42.0358, 40.1553



46.8910, 42.0358, 65.7630

# Square

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



31.8111, 42.0358, 40.1553



37.9420, 42.0358, 75.7549



49.3794, 42.0358, 51.8848



42.0355, 42.0358, 24.9703



# Rectangle

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



31.8111, 42.0358, 40.1553



33.1741, 42.0358, 63.0478



49.3794, 42.0358, 51.8848



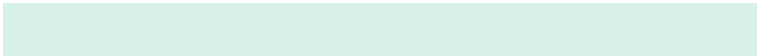
47.5994, 42.0358, 31.9776

# Sweetspot

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



31.8123, 42.0375, 40.1563



74.6023, 84.0213, 88.6749



32.7903, 42.9002, 24.0057



16.1816, 18.3800, 19.3143



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.



31.8123, 42.0375, 40.1563



52.5255, 73.0993, 66.9038



32.7122, 39.7784, 52.9696



9.6497, 10.7460, 11.4049



14.4319, 25.3630, 15.6029



0.5963, 1.0059, 0.7743



# Inverse Universe

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



32.2026, 25.8039, 30.0731



53.3380, 39.5854, 46.1207



31.4053, 27.0593, 21.0211



9.6771, 9.5951, 10.6885



14.9479, 7.6103, 5.0192



0.6176, 0.3110, 0.3658



# Previews

## White Background



This preview shows how the XYZ color 31.8111, 42.0358, 40.1553 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

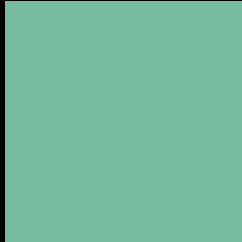
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.8111, 42.0358, 40.1553 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

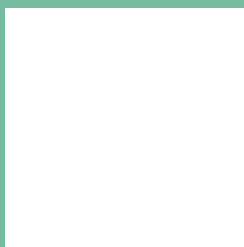
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 31.8111, 42.0358, 40.1553**

## **Background**



This preview shows how black text looks on a background with the XYZ color 31.8111, 42.0358, 40.1553.



This preview shows how white text looks on a background with the XYZ color 31.8111, 42.0358,



# 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

31.8111, 42.0358, 40.1553

### Protanopia

39.3247, 41.5083, 36.0763

### Deuteranopia

42.3485, 41.5605, 41.3873



## Tritanopia

35.5584, 41.9991, 59.0558

# Trichromacy



## Original Color

31.8111, 42.0358, 40.1553

## Protanomaly

35.8234, 41.1137, 37.5001

## Deuteranomaly

37.3539, 40.9518, 41.0577

## Tritanomaly

34.1044, 42.0268, 51.6619

# Monochromacy



## Original Color

31.8111, 42.0358, 40.1553

## Achromatopsia

35.2861, 37.1238, 40.4278

## Achromatomaly

33.5761, 38.4453, 40.3014

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.8111, 42.0358, 40.1553 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(119, 187, 161)` looks like.

```
.text, #text, p{  
    color:rgb(119, 187, 161)  
}
```

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(119, 187, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 187, 161) }
```

## Border

The CSS property to change the border of an element to XYZ 31.8111, 42.0358, 40.1553 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(119, 187, 161) }
```



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

```
.border{ border-color:rgb(119, 187, 161) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 187, 161)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 187, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 187, 161);  
box-shadow:4px 4px 4px 4px rgb(119, 187,  
161) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.8111, 42.0358, 40.1553 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 187, 161) }
```

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

```
.background{ background-color: rgb(119,  
187, 161) }
```

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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