

# Converting Colors

XYZ(41.7357, 51.6430, 37.6387)

Have a look what the booklet for  
XYZ(41.7357, 51.6430, 37.6387)  
contains.

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# Color

**XYZ(41.6316, 51.4681,  
37.4459)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A4C898
RGB	164, 200, 152
RGB Percent	64%, 78%, 60%
CMY	0.3569, 0.2157, 0.4039
CMYK	0.18, 0.00, 0.24, 0.22
HSL	105°, 30%, 69%
HSV	105°, 24%, 78%
XYZ	41.6316, 51.4681, 37.4459
YIQ	183.7640, -6.0480, -22.5600

# Conversions

## Conversions Part 2

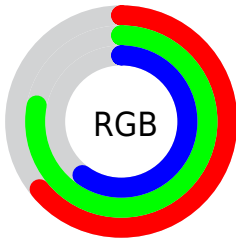
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">152, 200, 188</a>
Decimal	<a href="#">10799256</a>
CIELab	<a href="#">76.96, -20.98, 20.16</a>
CIElCh	<a href="#">77, 29.090, 136.143</a>
Yxy	<a href="#">51.4681, 0.3189, 0.3943</a>
Android (android.graphics.Color)	<a href="#">4288989336 (0xFFA4C898)</a>
YUV	<a href="#">183.7640, -15.6597, -17.3330</a>
Hunter-Lab	<a href="#">71.7413, -21.9633, 19.2720</a>

# Details

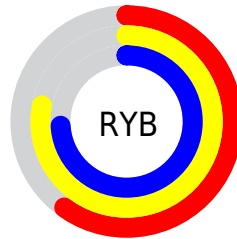
The XYZ color **41.6316, 51.4681, 37.4459** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **42.3949, 37.3195, 59.6153**, and the grayscale version is **45.5169, 47.8873, 52.1493**.

A 20% lighter version of the original color is **76.1140, 91.0363, 71.9526**, and **19.3099, 24.9421, 16.1085** is the 20% darker color. If you saturate the color by 10%, you get **37.2146, 49.3662, 29.3975**, and if you desaturate by 10%, it is **46.6928, 53.8732, 46.9685**.

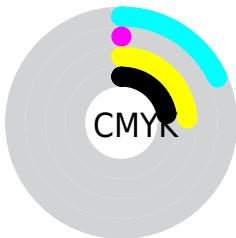
# Distribution



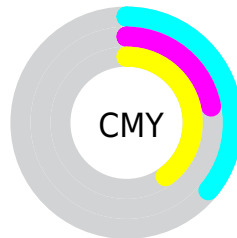
- Red (64%)
- Green (78%)
- Blue (60%)



- Red (60%)
- Yellow (78%)
- Blue (74%)



- Cyan (18%)
- Magenta (0%)
- Yellow (24%)
- Black (22%)



- Cyan (36%)
- Magenta (22%)
- Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.6316, 51.4681, 37.4459 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 41.6316, 51.4681, 37.4459 by changing the saturation by 10% instead.



■ 41.6316, 51.4681,  
37.4459

■ 41.6316, 51.4681,  
37.4459

343.9712,  
392.3797, 350.4637

■ 29.0028, 36.5813,  
25.2544

■ 76.9104, 92.3463,  
72.4520

■ 19.2272, 24.8835,  
16.0460

■ 100.2912,  
119.1065, 96.1038

■ 11.9396, 15.9903,  
9.4020

127.9866,  
150.5933, 124.4127

■ 6.7744, 9.5173,  
4.9039

160.3620,  
187.1911, 157.7973

■ 3.3665, 5.0801,  
2.1332

197.7828,  
229.2842, 196.6762

■ 1.3504, 2.2943,  
0.6355

240.6144,

■ 0.2205, 0.7707,

277.2571, 241.4678

0.0000

289.2220,  
331.4941, 292.5908

■ 0.0000, 0.0000,  
0.0000

■ 41.6316, 51.4681,  
37.4459

■ 41.6316, 51.4681,  
37.4459

■ 37.2146, 49.3662,  
29.3975

■ 46.6928, 53.8732,  
46.9685

■ 33.4113, 47.5487,  
22.7464

■ 52.4189, 56.5863,  
58.0302

■ 30.1945, 46.0051,  
17.4138

■ 58.8350, 59.6202,  
70.6964

■ 27.5335, 44.7214,  
13.3118

■ 65.9634, 62.9852,  
85.0274

■ 25.3945, 43.6822,  
10.3418

■ 73.8254, 66.6910,  
101.0805

■ 23.7396, 42.8706,  
8.3901

■ 79.5811, 69.6029,  
103.8481

■ 22.5249, 42.2668,  
7.3189

■ 79.9453, 69.7907,  
103.8651

■ 21.9704, 41.9886,  
6.9467

# Harmonies

## Analogous

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



46.0160, 51.4681, 31.5431



41.6316, 51.4681, 37.4459



39.2867, 51.4681, 49.0452

# Triad

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



41.6316, 51.4681, 37.4459



46.4113, 51.4681, 91.1917



59.8833, 51.4681, 47.9773

# Complementary

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



41.6316, 51.4681, 37.4459



42.3949, 37.3195, 59.6153

# 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.



60.0092, 51.4681, 63.6701



41.6316, 51.4681, 37.4459



51.9413, 51.4681, 90.7565

# Square

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



41.6316, 51.4681, 37.4459



41.9021, 51.4681, 81.0469



57.0105, 51.4681, 79.9512



56.6783, 51.4681, 36.7919



# Rectangle

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



41.6316, 51.4681, 37.4459



39.0721, 51.4681, 59.3690



57.0105, 51.4681, 79.9512



60.2949, 51.4681, 52.8379

# Sweetspot

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



41.6330, 51.4703, 37.4470



87.5528, 96.4518, 94.2383



47.4723, 50.5152, 36.9549



18.6076, 20.5820, 19.9142



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

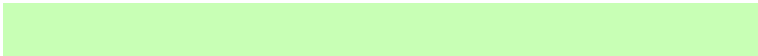


# Same Dimension

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



41.6330, 51.4703, 37.4470



67.8009, 87.0736, 56.9764



40.3056, 50.6667, 42.7785



10.7418, 12.0138, 11.3155



14.0390, 26.7326, 4.4200



0.7335, 1.3013, 0.2125



# Inverse Universe

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



42.3949, 37.3195, 59.6153



69.3475, 58.2093, 102.1883



44.1267, 38.3681, 52.6592



10.8142, 10.6780, 13.4086



14.7125, 6.8188, 35.2851



0.7600, 0.3555, 1.6737



# Previews

## White Background



This preview shows how the XYZ color 41.6316, 51.4681, 37.4459 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 41.6316, 51.4681, 37.4459 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 41.6316, 51.4681, 37.4459**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.6316, 51.4681, 37.4459.



This preview shows how white text looks on a background with the XYZ color 41.6316, 51.4681,

37.4459.

# 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

41.6316, 51.4681, 37.4459

### Protanopia

47.8212, 51.0583, 34.9386

### Deuteranopia

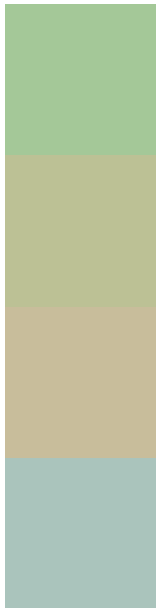
52.2439, 51.0718, 38.5568



## Tritanopia

47.6887, 51.5782, 67.1166

# Trichromacy



## Original Color

41.6316, 51.4681, 37.4459

## Protanomaly

45.2338, 51.0012, 35.8939

## Deuteranomaly

47.9334, 51.0411, 38.3359

## Tritanomaly

45.3946, 51.6567, 55.1552

# Monochromacy



## Original Color

41.6316, 51.4681, 37.4459

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

43.9913, 49.1526, 46.1985

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.6316, 51.4681, 37.4459 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(164, 200, 152)` looks like.

```
.text, #text, p{  
    color:rgb(164, 200, 152)  
}
```

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(164, 200, 152) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 200, 152) }
```

## Border

The CSS property to change the border of an element to XYZ 41.6316, 51.4681, 37.4459 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(164, 200, 152) }
```



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

```
.border{ border-color:rgb(164, 200, 152) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 200, 152)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 200, 152); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 200, 152);  
box-shadow:4px 4px 4px 4px rgb(164, 200,  
152) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.6316, 51.4681, 37.4459 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 200, 152) }
```

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

```
.background{ background-color: rgb(164,  
200, 152) }
```

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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