

Converting Colors

XYZ(40.9920, 49.9884, 12.6425)

Have a look what the booklet for
XYZ(40.9920, 49.9884, 12.6425)
contains.

XYZ(40.9920, 49.9884, 12.6425)	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(40.9920, 49.9884,
12.6425)**

Conversions

Conversions Part 1

Format	Color
Hex	BBC342
RGB	187, 195, 66
RGB Percent	73%, 76%, 26%
CMY	0.2667, 0.2353, 0.7412
CMYK	0.04, 0.00, 0.66, 0.24
HSL	64°, 52%, 51%
HSV	64°, 66%, 76%
XYZ	40.9920, 49.9884, 12.6425
YIQ	177.9020, 36.6410, -41.8150

Conversions

Conversions Part 2

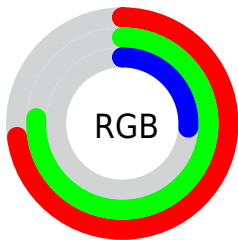
Format	Color
RYB	66, 195, 74
Decimal	12305218
CIELab	76.06, -19.05, 61.16
CIElCh	76, 64.056, 107.304
Yxy	49.9884, 0.3956, 0.4824
Android (android.graphics.Color)	4290495298 (0xFFBBC342)
YUV	177.9020, -55.1677, 7.9789
Hunter-Lab	70.7025, -20.2383, 38.8899

Details

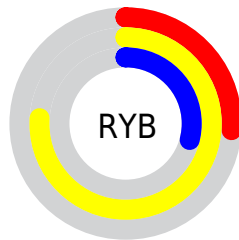
The XYZ color **40.9920, 49.9884, 12.6425** is a light color, and the websafe version is hex **CCCC33**. The color can be described as light muted chartreuse. A complement of this color would be **14.6242, 9.2936, 52.6559**, and the grayscale version is **42.5354, 44.7505, 48.7333**.

A 20% lighter version of the original color is **75.9544, 89.9677, 31.4514**, and **19.0331, 24.1713, 3.6624** is the 20% darker color. If you saturate the color by 10%, you get **40.2179, 49.6466, 10.1002**, and if you desaturate by 10%, it is **41.9668, 50.4145, 16.2190**.

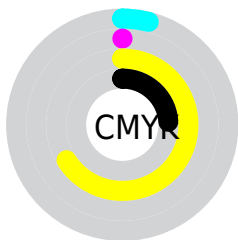
Distribution



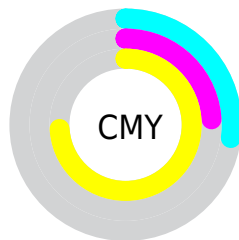
- Red (73%)
- Green (76%)
- Blue (26%)



- Red (26%)
- Yellow (76%)
- Blue (29%)



- Cyan (4%)
- Magenta (0%)
- Yellow (66%)
- Black (24%)





- Cyan (27%)
- Magenta (24%)
- Yellow (74%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 40.9920, 49.9884, 12.6425 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 40.9920, 49.9884, 12.6425 by changing the saturation by 10% instead.


 40.9920, 49.9884,
12.6425


 40.9920, 49.9884,
12.6425


341.3503,
386.6206, 219.7404

 28.5005, 35.4042,
7.0550


 75.9465, 90.1577,
31.3417

 18.8456, 23.9744,
3.4176

 99.1403, 116.5115,
45.2905


 11.6621, 15.3146,
1.3116


 126.6321,
147.5574, 62.8635

 6.5846, 9.0405,
0.0713

 158.7874,
183.6797, 84.4793

 3.2477, 4.7676,
0.0000

 195.9715,
225.2627, 110.5563

 1.2861, 2.1116,
0.0000

238.5498,

 0.1728, 0.6711,

272.6910, 141.5131

0.0000

286.8876,
326.3488, 177.7683

■ 0.0000, 0.0000,
0.0000

■ 40.9920, 49.9884,
12.6425

■ 40.9920, 49.9884,
12.6425

■ 40.2179, 49.6466,
10.1002

■ 41.9668, 50.4145,
16.2190

■ 39.6203, 49.3737,
8.4790

■ 43.1569, 50.9252,
20.9210

■ 39.1737, 49.1616,
7.6399

■ 44.5794, 51.5291,
26.8335

■ 39.0217, 49.0880,
7.4183

■ 46.2486, 52.2320,
34.0324

■ 48.1779, 53.0392,
42.5873

■ 50.3794, 53.9557,
52.5631

■ 52.8648, 54.9859,
64.0201

■ 55.6448, 56.1343,
77.0155

■ 58.7297, 57.4049,
91.6032

Harmonies

Analogous

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



52.7508, 49.9884, 12.1314



40.9920, 49.9884, 12.6425



32.5288, 49.9884, 20.8572

Triad

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



40.9920, 49.9884, 12.6425



33.5555, 49.9884, 118.6445



73.6791, 49.9884, 70.2337

Complementary

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



40.9920, 49.9884, 12.6425



14.6242, 9.2936, 52.6559

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.



66.5088, 49.9884, 112.4568



40.9920, 49.9884, 12.6425



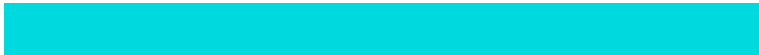
42.6329, 49.9884, 147.3429

Square

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



40.9920, 49.9884, 12.6425



28.7566, 49.9884, 76.4759



54.6901, 49.9884, 144.6954



73.0395, 49.9884, 37.0873

Rectangle

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



40.9920, 49.9884, 12.6425



29.2896, 49.9884, 32.7571



54.6901, 49.9884, 144.6954



72.0578, 49.9884, 84.0186

Sweetspot

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



40.9932, 49.9907, 12.6435



84.7877, 94.3641, 69.5976



25.8374, 16.6899, 7.0146



18.3526, 20.5748, 14.2889



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.



40.9932, 49.9907, 12.6435



71.5548, 88.6990, 16.7192



28.8199, 43.7151, 12.0738



10.8497, 11.7255, 10.7533



25.3870, 31.9163, 4.8224



1.1159, 1.3888, 0.2093

Inverse Universe

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



14.6242, 9.2936, 52.6559



21.1219, 10.7416, 93.4299



22.1085, 13.1519, 53.0062



9.5849, 9.7772, 12.6668



6.5270, 2.6252, 33.7193



0.3024, 0.1239, 1.4579

Previews

White Background



This preview shows how the XYZ color 40.9920, 49.9884, 12.6425 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 40.9920, 49.9884, 12.6425 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 40.9920, 49.9884, 12.6425

Background



This preview shows how black text looks on a background with the XYZ color 40.9920, 49.9884, 12.6425.



This preview shows how white text looks on a background with the XYZ color 40.9920, 49.9884,

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

40.9920, 49.9884, 12.6425

Protanopia

45.4870, 50.0382, 12.1114

Deuteranopia

50.6944, 49.6323, 13.0390



Tritanopia

50.3592, 49.6292, 59.7485

Trichromacy



Original Color

40.9920, 49.9884, 12.6425

Protanomaly

43.9421, 50.1998, 12.3746

Deuteranomaly

46.5649, 49.3221, 12.8602

Tritanomaly

45.7008, 49.3127, 35.5434

Monochromacy



Original Color

40.9920, 49.9884, 12.6425

Achromatopsia

42.3164, 44.5201, 48.4824

Achromatomaly

40.7119, 45.9109, 30.3829

CSS Examples

Text

The CSS property to change the color of the text to XYZ 40.9920, 49.9884, 12.6425 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(187, 195, 66)` looks like.

```
.text, #text, p{  
    color:rgb(187, 195, 66)  
}
```

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(187, 195, 66) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 195, 66) }
```

Border

The CSS property to change the border of an element to XYZ 40.9920, 49.9884, 12.6425 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(187, 195, 66) }
```


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

```
.border{ border-color:rgb(187, 195, 66) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 195, 66)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 195, 66); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 195, 66);  
box-shadow:4px 4px 4px 4px rgb(187, 195,  
66) }
```

Background

The CSS property to change the background color of an element to XYZ 40.9920, 49.9884, 12.6425 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 195, 66) }
```

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

```
.background{ background-color: rgb(187,  
195, 66) }
```

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