

Converting Colors

$Y_{xy}(36.9496, 0.4309, 0.4635)$

Have a look what the booklet for
Yxy(36.9496, 0.4309, 0.4635)
contains.

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Color

Yxy(36.7710, 0.4312, 0.4628)

Conversions

Conversions Part 1

Format	Color
Hex	BCA233
RGB	188, 162, 51
RGB Percent	74%, 64%, 20%
CMY	0.2627, 0.3647, 0.8000
CMYK	0.00, 0.14, 0.73, 0.26
HSL	49°, 57%, 47%
HSV	49°, 73%, 74%
XYZ	34.2603, 36.7710, 8.4221
YIQ	157.1200, 51.1270, -29.0090

Conversions

Conversions Part 2

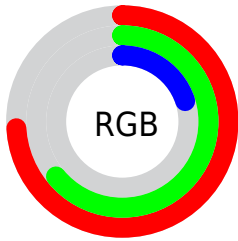
Format	Color
R_{YB}	83, 188, 51
Decimal	12362291
CIE Lab	67.10, -2.37, 58.07
CIE LCh	67, 58.118, 92.338
Yxy	36.7710, 0.4312, 0.4628
Android (android.graphics.Color)	4290552371 (0xFFBCA233)
YUV	157.1200, -52.3172, 27.0818
Hunter-Lab	60.6391, -5.2683, 34.2127

Details

The Yxy color **36.7710, 0.4312, 0.4628** is a dark color, and the websafe version is hex **CC9933**. A complement of this color would be **9.6444, 0.1832, 0.1349**, and the grayscale version is **33.9979, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.4198, 0.4117, 0.4411**, and **16.1942, 0.4481, 0.4824** is the 20% darker color. If you saturate the color by 10%, you get **35.3991, 0.4431, 0.4710**, and if you desaturate by 10%, it is **38.2492, 0.4168, 0.4504**.

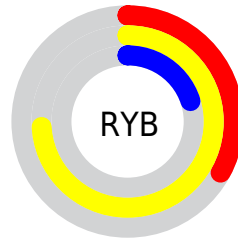
Distribution



Red (74%)

Green (64%)

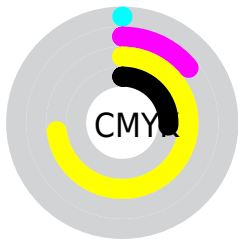
Blue (20%)



Red (33%)

Yellow (74%)

Blue (20%)

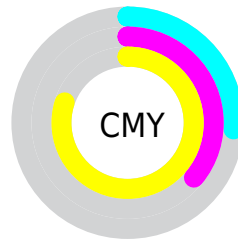


Cyan (0%)

Magenta (14%)

Yellow (73%)

Black (26%)



Cyan (26%)


Magenta (36%)

Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 36.7710, 0.4312, 0.4628 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 Yxy color 36.7710, 0.4312, 0.4628 by changing the saturation by 10% instead.


 36.7710, 0.4312,
0.4628

 36.7710, 0.4312,
0.4628


332.3180, 0.3750,
0.3983


 25.0302, 0.4425,
0.4762


 70.2204, 0.4125,
0.4410


 16.0996, 0.4547,
0.4911


 92.6979, 0.4048,
0.4322

 9.5946, 0.4690,
0.5091


 119.5231, 0.3982,
0.4246

 5.1310, 0.4777,
0.5223

 151.0803, 0.3924,
0.4180

 2.3244, 0.4748,
0.5252

 187.7540, 0.3872,
0.4121

 0.7866, 0.4672,
0.5328

 229.9286, 0.3827,

 0.0000, 0.0000,

0.4070

0.0000

277.9885, 0.3786,
0.4024

■ 36.7710, 0.4312,
0.4628

■ 36.7710, 0.4312,
0.4628

■ 35.3991, 0.4431,
0.4710

■ 38.2492, 0.4168,
0.4504

■ 34.1192, 0.4522,
0.4745

■ 39.8359, 0.4007,
0.4344

■ 33.2529, 0.4574,
0.4750

■ 41.5395, 0.3836,
0.4160

■ 43.3657, 0.3661,
0.3959

■ 45.3201, 0.3489,
0.3752

■ 47.4076, 0.3325,
0.3546

■ 49.6329, 0.3170,
0.3346

■ 52.0004, 0.3026,
0.3156

■ 54.5142, 0.2895,
0.2977

Harmonies

Analogous

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



36.7710, 0.4788, 0.4051



36.7710, 0.4312, 0.4628



36.7710, 0.3560, 0.4919

Triad

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



36.7710, 0.4312, 0.4628



36.7710, 0.1709, 0.2799



36.7710, 0.3347, 0.2354

Complementary

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



36.7710, 0.4312, 0.4628



9.6444, 0.1832, 0.1349

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.



36.7710, 0.2513, 0.2059



36.7710, 0.4312, 0.4628



36.7710, 0.1675, 0.2229

Square

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



36.7710, 0.4312, 0.4628



36.7710, 0.2069, 0.3700



36.7710, 0.1942, 0.2004



36.7710, 0.4229, 0.2835

Rectangle

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



36.7710, 0.4312, 0.4628



36.7710, 0.3007, 0.4779



36.7710, 0.1942, 0.2004



36.7710, 0.3048, 0.2231

Sweetspot

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



36.7728, 0.4312, 0.4628



82.3081, 0.3481, 0.3741



13.6163, 0.5112, 0.2985



17.4881, 0.3527, 0.3798



95.5105, 0.3127, 0.3290



19.5994, 0.3127, 0.3290

Same Dimension

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



36.7728, 0.4312, 0.4628



62.8356, 0.4485, 0.4735



42.4084, 0.3700, 0.5127



10.8041, 0.3269, 0.3475



22.7379, 0.4569, 0.4754



0.9714, 0.4464, 0.4838

Inverse Universe

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



9.6444, 0.1832, 0.1349



11.5539, 0.1637, 0.0976



8.2787, 0.2058, 0.1160



9.5108, 0.2984, 0.3098



3.4017, 0.1555, 0.0796



0.2230, 0.1673, 0.1222

Previews

White Background



This preview shows how the Yxy color 36.7710, 0.4312, 0.4628 looks on a white background.

Color Contrast Check

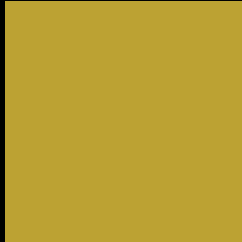
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 36.7710, 0.4312, 0.4628 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](#).

Yxy 36.7710, 0.4312, 0.4628

Background



This preview shows how black text looks on a background with the Yxy color 36.7710, 0.4312, 0.4628.

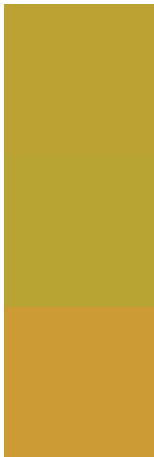


This preview shows how white text looks on a background with the Yxy color 36.7710, 0.4312, 0.4628.

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

36.7710, 0.4312, 0.4628

Protanopia

36.8572, 0.4242, 0.4681

Deuteranopia

36.6789, 0.4540, 0.4436



Tritanopia

36.5133, 0.3471, 0.3134

Trichromacy



Original Color

36.7710, 0.4312, 0.4628

Protanomaly

36.7477, 0.4272, 0.4658

Deuteranomaly

36.8438, 0.4456, 0.4510

Tritanomaly

36.1853, 0.3844, 0.3736

Monochromacy



Original Color

36.7710, 0.4312, 0.4628

Achromatopsia

33.7164, 0.3127, 0.3290

Achromatomaly

34.4291, 0.3601, 0.3897

CSS Examples

Text

The CSS property to change the color of the text to Yxy 36.7710, 0.4312, 0.4628 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(188, 162, 51)` looks like.

```
.text, #text, p{  
    color:rgb(188, 162, 51)  
}
```

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(188, 162, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 162, 51) }
```

Border

The CSS property to change the border of an element to Yxy 36.7710, 0.4312, 0.4628 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(188, 162, 51) }
```

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

```
.border{ border-color:rgb(188, 162, 51) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 162, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 162, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 162, 51);  
box-shadow:4px 4px 4px 4px rgb(188, 162,  
51) }
```


Background

The CSS property to change the background color of an element to Yxy 36.7710, 0.4312, 0.4628 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 162, 51) }
```

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

```
.background{ background-color: rgb(188,  
162, 51) }
```

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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