

Converting Colors

$Y_{xy}(31.1604, 0.3745, 0.5213)$

Have a look what the booklet for
Yxy(31.1604, 0.3745, 0.5213)
contains.

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Color

Yxy(31.2444, 0.3746, 0.5216)

Conversions

Conversions Part 1

Format	Color
Hex	80A420
RGB	128, 164, 32
RGB Percent	50%, 64%, 13%
CMY	0.4980, 0.3569, 0.8743
CMYK	0.22, 0.00, 0.80, 0.36
HSL	76°, 67%, 38%
HSV	76°, 80%, 64%
XYZ	22.4389, 31.2444, 6.2177
YIQ	138.1880, 20.9160, -48.6840

Conversions

Conversions Part 2

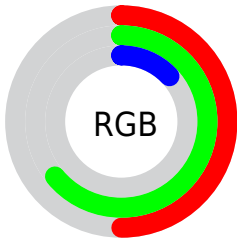
Format	Color
RYB	32, 164, 68
Decimal	8430624
CIELab	62.71, -30.26, 58.70
CIELCh	63, 66.036, 117.272
Yxy	31.2444, 0.3746, 0.5216
Android (android.graphics.Color)	4286620704 (0xFF80A420)
YUV	138.1880, -52.3507, -8.9349
Hunter-Lab	55.8967, -26.1629, 32.5325

Details

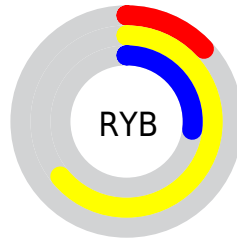
The Yxy color **31.2444, 0.3746, 0.5216** is a dark color, and the websafe version is hex **669900**. A complement of this color would be **4.9469, 0.1916, 0.0987**, and the grayscale version is **25.6920, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.5747, 0.3683, 0.4835**, and **13.0442, 0.3632, 0.5498** is the 20% darker color. If you saturate the color by 10%, you get **30.8382, 0.3743, 0.5341**, and if you desaturate by 10%, it is **31.7131, 0.3724, 0.5045**.

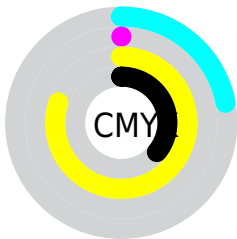
Distribution



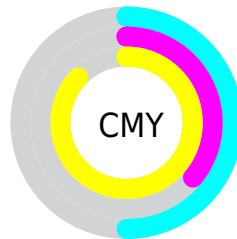
- Red (50%)
- Green (64%)
- Blue (13%)



- Red (13%)
- Yellow (64%)
- Blue (27%)



- Cyan (22%)
- Magenta (0%)
- Yellow (80%)
- Black (36%)





- Cyan (50%)
- Magenta (36%)
- Yellow (87%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 31.2444, 0.3746, 0.5216 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 31.2444, 0.3746, 0.5216 by changing the saturation by 10% instead.


 31.2444, 0.3746,
0.5216


 31.2444, 0.3746,
0.5216


307.6627, 0.3500,
0.4183


 20.7850, 0.3764,
0.5471


 61.6247, 0.3684,
0.4836

 12.9670, 0.3751,
0.5782


 82.3143, 0.3651,
0.4693


 7.4058, 0.3734,
0.6266


 107.1829, 0.3620,
0.4573

 3.7172, 0.3428,
0.6572

 136.6147, 0.3592,
0.4471

 1.5166, 0.2832,
0.7168

 170.9942, 0.3565,
0.4384

 0.3004, 0.0000,
1.0000

 210.7058, 0.3542,

 0.0000, 0.0000,

0.4308

0.0000

256.1338, 0.3520,
0.4242

■ 31.2444, 0.3746,
0.5216

■ 31.2444, 0.3746,
0.5216

■ 30.8382, 0.3743,
0.5341

■ 31.7131, 0.3724,
0.5045

■ 30.4921, 0.3723,
0.5426

■ 32.2460, 0.3679,
0.4835

■ 32.8498, 0.3613,
0.4595

■ 33.5290, 0.3530,
0.4336

■ 34.2876, 0.3437,
0.4068

■ 35.1294, 0.3336,
0.3802

■ 36.0579, 0.3234,
0.3545

■ 37.0764, 0.3132,
0.3301

■ 38.1878, 0.3033,
0.3073

Harmonies

Analogous

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



31.2444, 0.4598, 0.4706



31.2444, 0.3746, 0.5216



31.2444, 0.2791, 0.5021

Triad

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



31.2444, 0.3746, 0.5216



31.2444, 0.1440, 0.2115



31.2444, 0.4278, 0.2641

Complementary

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



31.2444, 0.3746, 0.5216



4.9469, 0.1916, 0.0987

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.



31.2444, 0.3193, 0.2131



31.2444, 0.3746, 0.5216



31.2444, 0.1681, 0.1819

Square

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



31.2444, 0.3746, 0.5216



31.2444, 0.1523, 0.2834



31.2444, 0.2262, 0.1842



31.2444, 0.5038, 0.3284

Rectangle

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



31.2444, 0.3746, 0.5216



31.2444, 0.2216, 0.4386



31.2444, 0.2262, 0.1842



31.2444, 0.3925, 0.2452

Sweetspot

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



31.2458, 0.3746, 0.5216



63.1347, 0.3377, 0.3908



12.0399, 0.5430, 0.3716



13.6903, 0.3411, 0.3998



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290

Same Dimension

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



31.2458, 0.3746, 0.5216



55.4282, 0.3723, 0.5411



27.7080, 0.3167, 0.5634



8.1397, 0.3221, 0.3515



23.4034, 0.3727, 0.5423



0.5132, 0.3906, 0.5281

Inverse Universe

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



4.9469, 0.1916, 0.0987



6.0653, 0.1691, 0.0718



8.7201, 0.2749, 0.1417



6.9491, 0.3027, 0.3061



2.4994, 0.1686, 0.0702



0.0746, 0.2073, 0.0916

Previews

White Background



This preview shows how the Yxy color 31.2444, 0.3746, 0.5216 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 31.2444, 0.3746, 0.5216 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

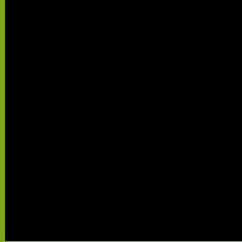
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 31.2444, 0.3746, 0.5216

Background



This preview shows how black text looks on a background with the Yxy color 31.2444, 0.3746, 0.5216.



This preview shows how white text looks on a background with the Yxy color 31.2444, 0.3746, 0.5216.

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

31.2444, 0.3746, 0.5216

Protanopia

31.0912, 0.4325, 0.4798

Deuteranopia

31.0681, 0.4565, 0.4481



Tritanopia

31.2499, 0.2914, 0.3104

Trichromacy



Original Color

31.2444, 0.3746, 0.5216

Protanomaly

30.8392, 0.4115, 0.4949

Deuteranomaly

30.4952, 0.4261, 0.4748

Tritanomaly

30.7167, 0.3292, 0.3953

Monochromacy



Original Color

31.2444, 0.3746, 0.5216

Achromatopsia

25.4152, 0.3127, 0.3290

Achromatomaly

26.8366, 0.3456, 0.4119

CSS Examples

Text

The CSS property to change the color of the text to Yxy 31.2444, 0.3746, 0.5216 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, 164, 32)` looks like.

```
.text, #text, p{  
    color:rgb(128, 164, 32)  
}
```

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, 164, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 164, 32) }
```

Border

The CSS property to change the border of an element to Yxy 31.2444, 0.3746, 0.5216 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, 164, 32) }
```

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

```
.border{ border-color:rgb(128, 164, 32) }
```

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

Here you see how a box with a 4 pixel rgb(128, 164, 32) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 164, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 164, 32);  
box-shadow:4px 4px 4px 4px rgb(128, 164,  
32) }
```


Background

The CSS property to change the background color of an element to Yxy 31.2444, 0.3746, 0.5216 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 164, 32) }
```

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

```
.background{ background-color: rgb(128,  
164, 32) }
```

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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