

Converting Colors

$Y_{xy}(30.7199, 0.2897, 0.5628)$

Have a look what the booklet for
Yxy(30.7199, 0.2897, 0.5628)
contains.

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Color

Yxy(30.8817, 0.2899, 0.5636)

Conversions

Conversions Part 1

Format	Color
Hex	00AF31
RGB	0, 175, 49
RGB Percent	0%, 69%, 19%
CMY	0.9997, 0.3137, 0.8079
CMYK	1.00, 0.00, 0.72, 0.31
HSL	137°, 100%, 34%
HSV	137°, 100%, 69%
XYZ	15.8847, 30.8817, 8.0273
YIQ	108.3110, -63.8540, -76.2860

Conversions

Conversions Part 2

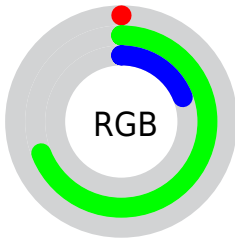
Format	Color
RYB	0, 137, 175
Decimal	44849
CIELab	62.41, -62.55, 51.32
CIELCh	62, 80.912, 140.631
Yxy	30.8817, 0.2899, 0.5636
Android (android.graphics.Color)	4278234929 (0xFF00AF31)
YUV	108.3110, -29.2403, -94.9887
Hunter-Lab	55.5713, -46.2268, 30.3355

Details

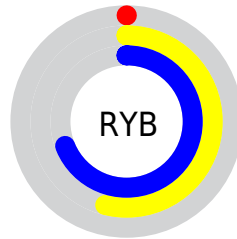
The Yxy color **30.8817, 0.2899, 0.5636** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **10.6244, 0.4066, 0.2014**, and the grayscale version is **15.1917, 0.3127, 0.3290**.

A 20% lighter version of the original color is **61.1054, 0.3009, 0.5111**, and **13.6747, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **30.8821, 0.2899, 0.5637**, and if you desaturate by 10%, it is **31.1287, 0.2872, 0.5442**.

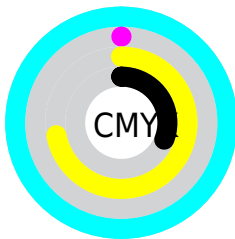
Distribution



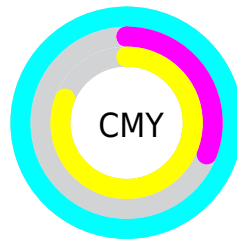
- Red (0%)
- Green (69%)
- Blue (19%)



- Red (0%)
- Yellow (54%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (72%)
- Black (31%)




- Cyan (100%)
- Magenta (31%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 30.8817, 0.2899, 0.5636 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 30.8817, 0.2899, 0.5636 by changing the saturation by 10% instead.

 30.8817, 0.2899,
0.5636


 30.8817, 0.2899,
0.5636


305.9929, 0.3109,
0.4287

 20.5088, 0.2798,
0.6020


 61.0538, 0.3007,
0.5106

 12.7654, 0.2634,
0.6528

 81.6217, 0.3037,
0.4918


 7.2672, 0.2382,
0.7299


 106.3568, 0.3059,
0.4764

 3.6298, 0.1863,
0.8137

 135.6434, 0.3075,
0.4636

 1.4687, 0.0000,
1.0000

 169.8659, 0.3087,
0.4528

 0.2665, 0.0000,
1.0000

 209.4087, 0.3096,

 0.0000, 0.0000,

0.4436

0.0000

254.6563, 0.3104,
0.4356

■ 30.8817, 0.2899,
0.5636

■ 30.8817, 0.2899,
0.5636

■ 30.8821, 0.2899,
0.5637

■ 31.1287, 0.2872,
0.5442

■ 31.5166, 0.2856,
0.5212

■ 32.0912, 0.2854,
0.4954

■ 32.8744, 0.2868,
0.4683

■ 33.8850, 0.2895,
0.4410

■ 35.1396, 0.2932,
0.4147

■ 36.6532, 0.2976,
0.3900

■ 38.4395, 0.3025,
0.3674

■ 40.5113, 0.3076,
0.3470

Harmonies

Analogous

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



30.8817, 0.4004, 0.5488



30.8817, 0.2899, 0.5636



30.8817, 0.1904, 0.4496

Triad

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



30.8817, 0.2899, 0.5636



30.8817, 0.1355, 0.1606



30.8817, 0.5318, 0.3050

Complementary

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



30.8817, 0.2899, 0.5636



10.6244, 0.4066, 0.2014

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.



30.8817, 0.4240, 0.2361



30.8817, 0.2899, 0.5636



30.8817, 0.1909, 0.1576

Square

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



30.8817, 0.2899, 0.5636



30.8817, 0.1163, 0.2005



30.8817, 0.2907, 0.1838



30.8817, 0.5541, 0.3815

Rectangle

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



30.8817, 0.2899, 0.5636



30.8817, 0.1458, 0.3430



30.8817, 0.2907, 0.1838



30.8817, 0.5035, 0.2810

Sweetspot

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



30.8830, 0.2899, 0.5636



65.4784, 0.2974, 0.3913



35.2777, 0.3731, 0.5419



14.2940, 0.2955, 0.4014



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



30.8830, 0.2899, 0.5636



55.2749, 0.2907, 0.5664



32.3877, 0.2460, 0.4055



8.9748, 0.3079, 0.3458



22.1243, 0.2894, 0.5617



0.6249, 0.2719, 0.4989

Inverse Universe

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



10.6244, 0.4066, 0.2014



18.9847, 0.4084, 0.2023



9.2751, 0.5971, 0.3063



8.1093, 0.3178, 0.3128



7.6176, 0.4054, 0.2007



0.2206, 0.3746, 0.1837

Previews

White Background



This preview shows how the Yxy color 30.8817, 0.2899, 0.5636 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 30.8817, 0.2899, 0.5636 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 30.8817, 0.2899, 0.5636

Background



This preview shows how black text looks on a background with the Yxy color 30.8817, 0.2899, 0.5636.



This preview shows how white text looks on a background with the Yxy color 30.8817, 0.2899, 0.5636.

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

30.8817, 0.2899, 0.5636

Protanopia

30.3119, 0.4263, 0.4700

Deuteranopia

30.1220, 0.4427, 0.4334



Tritanopia

30.7464, 0.2353, 0.3052

Trichromacy



Original Color

30.8817, 0.2899, 0.5636



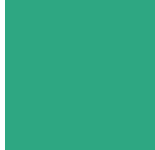
Protanomaly

28.1115, 0.3509, 0.5210



Deuteranomaly

27.2582, 0.3586, 0.4946



Tritanomaly

29.8300, 0.2541, 0.3994

Monochromacy



Original Color

30.8817, 0.2899, 0.5636



Achromatopsia

14.9960, 0.3127, 0.3290



Achromatomaly

18.4559, 0.2903, 0.4312

CSS Examples

Text

The CSS property to change the color of the text to Yxy 30.8817, 0.2899, 0.5636 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(0, 175, 49)` looks like.

```
.text, #text, p{  
    color:rgb(0, 175, 49)  
}
```

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(0, 175, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 175, 49) }
```

Border

The CSS property to change the border of an element to Yxy 30.8817, 0.2899, 0.5636 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(0, 175, 49) }
```

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

```
.border{ border-color:rgb(0, 175, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 175, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 175, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 175, 49);  
box-shadow:4px 4px 4px 4px rgb(0, 175, 49)  
}
```


Background

The CSS property to change the background color of an element to Yxy 30.8817, 0.2899, 0.5636 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 175, 49) }
```

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

```
.background{ background-color: rgb(0, 175,  
49) }
```

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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