

Converting Colors

$Y_{xy}(12.8112, 0.3066, 0.5664)$

Have a look what the booklet for
Yxy(12.8112, 0.3066, 0.5664)
contains.

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Color

$Y_{xy}(12.8400, 0.3069, 0.5665)$

Conversions

Conversions Part 1

Format	Color
Hex	1F7416
RGB	31, 116, 22
RGB Percent	12%, 45%, 9%
CMY	0.8783, 0.5451, 0.9138
CMYK	0.73, 0.00, 0.81, 0.55
HSL	114°, 68%, 27%
HSV	114°, 81%, 45%
XYZ	6.9560, 12.8400, 2.8695
YIQ	79.8690, -20.4860, -47.2540

Conversions

Conversions Part 2

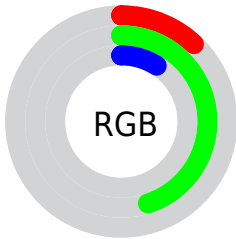
Format	Color
RYB	22, 116, 107
Decimal	2061334
CIELab	42.52, -43.10, 41.38
CIELCh	43, 59.752, 136.167
Yxy	12.8400, 0.3069, 0.5665
Android (android.graphics.Color)	4280251414 (0xFF1F7416)
YUV	79.8690, -28.5294, -42.8581
Hunter-Lab	35.8329, -28.0565, 20.3352

Details

The Yxy color **12.8400, 0.3069, 0.5665** is a dark color, and the websafe version is hex **006600**. A complement of this color would be **4.9556, 0.3021, 0.1577**, and the grayscale version is **8.0569, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0306, 0.3168, 0.5013**, and **3.8964, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **12.6681, 0.3047, 0.5847**, and if you desaturate by 10%, it is **13.0861, 0.3089, 0.5416**.

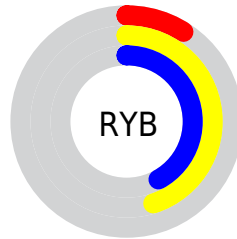
Distribution



Red (12%)

Green (45%)

Blue (9%)



Red (9%)

Yellow (45%)

Blue (42%)

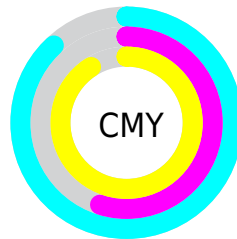


Cyan (73%)

Magenta (0%)

Yellow (81%)

Black (55%)



Cyan (88%)


Magenta (55%)

Yellow (91%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 12.8400, 0.3069, 0.5665 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 12.8400, 0.3069, 0.5665 by changing the saturation by 10% instead.


 12.8400, 0.3069,
0.5665

 12.8400, 0.3069,
0.5665


209.8897, 0.3196,
0.4145


 7.3185, 0.2943,
0.6188


 31.0160, 0.3164,
0.5010


 3.6621, 0.2784,
0.7216

 44.4393, 0.3182,
0.4796


 1.4864, 0.1515,
0.8485

 61.2653, 0.3191,
0.4628

 0.2791, 0.0000,
1.0000

 81.8784, 0.3196,
0.4493

 0.0000, 0.0000,
0.0000


 106.6630, 0.3197,
0.4382


 136.0035, 0.3198,


0.4290


 170.2843, 0.3197,
0.4212


 12.8400, 0.3069,
0.5665


 12.8400, 0.3069,
0.5665


 12.6681, 0.3047,
0.5847


 13.0861, 0.3089,
0.5416

 12.5631, 0.3035,
0.5972

 13.4118, 0.3105,
0.5117

 13.8239, 0.3117,
0.4791

 14.3280, 0.3126,
0.4458

 14.9291, 0.3130,
0.4136

■ 15.6321, 0.3131,
0.3834

■ 16.4414, 0.3130,
0.3559

■ 17.3611, 0.3128,
0.3314

■ 18.3952, 0.3123,
0.3098

Harmonies

Analogous

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



12.8400, 0.4160, 0.5371



12.8400, 0.3069, 0.5665



12.8400, 0.2044, 0.4711

Triad

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



12.8400, 0.3069, 0.5665



12.8400, 0.1318, 0.1652



12.8400, 0.5183, 0.2948

Complementary

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



12.8400, 0.3069, 0.5665



4.9556, 0.3021, 0.1577

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.



12.8400, 0.4030, 0.2279



12.8400, 0.3069, 0.5665



12.8400, 0.1812, 0.1574

Square

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



12.8400, 0.3069, 0.5665



12.8400, 0.1176, 0.2118



12.8400, 0.2735, 0.1793



12.8400, 0.5545, 0.3698

Rectangle

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



12.8400, 0.3069, 0.5665



12.8400, 0.1553, 0.3657



12.8400, 0.2735, 0.1793



12.8400, 0.4862, 0.2713

Sweetspot

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



12.8405, 0.3069, 0.5665



27.0185, 0.3131, 0.3938



14.2025, 0.4244, 0.4798



6.3613, 0.3131, 0.4025



60.3827, 0.3127, 0.3290



7.3239, 0.3127, 0.3290

Same Dimension

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



12.8405, 0.3069, 0.5665



22.1008, 0.3031, 0.5946



12.9829, 0.2764, 0.4863



4.1136, 0.3130, 0.3508



14.0943, 0.3034, 0.5973



68.5045, 0.3018, 0.5986

Inverse Universe

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



4.9556, 0.3021, 0.1577



7.5805, 0.2979, 0.1429



4.8416, 0.4136, 0.2255



3.7409, 0.3123, 0.3080



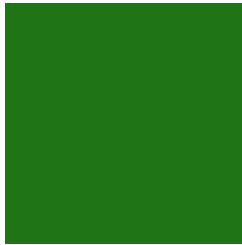
4.7685, 0.2976, 0.1413



23.0328, 0.2963, 0.1406

Previews

White Background



This preview shows how the Yxy color 12.8400, 0.3069, 0.5665 looks on a white background.

Color Contrast Check

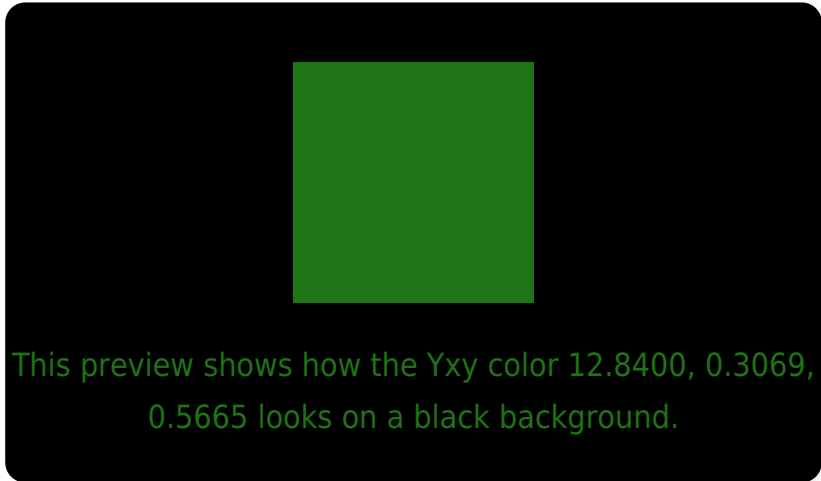
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

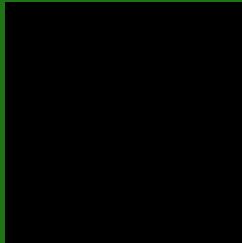
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8400, 0.3069, 0.5665

Background



This preview shows how black text looks on a background with the Yxy color 12.8400, 0.3069, 0.5665.



This preview shows how white text looks on a background with the Yxy color 12.8400, 0.3069, 0.5665.

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

12.8400, 0.3069, 0.5665

Protanopia

12.6687, 0.4321, 0.4770

Deuteranopia

12.6487, 0.4480, 0.4424



Tritanopia

12.8502, 0.2440, 0.3072

Trichromacy



Original Color

12.8400, 0.3069, 0.5665

Protanomaly

12.1941, 0.3755, 0.5181

Deuteranomaly

12.0085, 0.3857, 0.4941

Tritanomaly

12.5824, 0.2709, 0.4068

Monochromacy



Original Color

12.8400, 0.3069, 0.5665

Achromatopsia

8.0220, 0.3127, 0.3290

Achromatomaly

9.1686, 0.3124, 0.4282

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8400, 0.3069, 0.5665 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(31, 116, 22)` looks like.

```
.text, #text, p{  
    color:rgb(31, 116, 22)  
}
```

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(31, 116, 22) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 116, 22) }
```

Border

The CSS property to change the border of an element to Yxy 12.8400, 0.3069, 0.5665 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(31, 116, 22) }
```

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

```
.border{ border-color:rgb(31, 116, 22) }
```

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

Here you see how a box with a 4 pixel rgb(31, 116, 22) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 116, 22); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 116, 22);  
box-shadow:4px 4px 4px 4px rgb(31, 116,  
22) }
```


Background

The CSS property to change the background color of an element to Yxy 12.8400, 0.3069, 0.5665 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 116, 22) }
```

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

```
.background{ background-color: rgb(31, 116,  
22) }
```

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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