

Converting Colors

$Y_{xy}(12.3267, 0.3229, 0.5549)$

Have a look what the booklet for
Yxy(12.3267, 0.3229, 0.5549)
contains.

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Color

Yxy(12.2709, 0.3232, 0.5547)

Conversions

Conversions Part 1

Format	Color
Hex	307015
RGB	48, 112, 21
RGB Percent	19%, 44%, 8%
CMY	0.8116, 0.5608, 0.9176
CMYK	0.57, 0.00, 0.81, 0.56
HSL	102°, 68%, 26%
HSV	102°, 81%, 44%
XYZ	7.1497, 12.2709, 2.7011
YIQ	82.4900, -8.9330, -41.8690

Conversions

Conversions Part 2

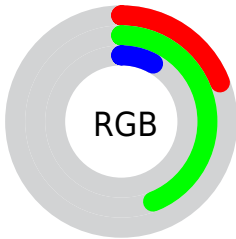
Format	Color
R_{YB}	21, 112, 85
Decimal	3174421
CIE Lab	41.64, -37.40, 41.06
CIE LCh	42, 55.534, 132.329
Yxy	12.2709, 0.3232, 0.5547
Android (android.graphics.Color)	4281364501 (0xFF307015)
YUV	82.4900, -30.3146, -30.2477
Hunter-Lab	35.0298, -24.8697, 19.9492

Details

The Yxy color **12.2709, 0.3232, 0.5547** is a dark color, and the websafe version is hex **336600**. A complement of this color would be **3.6358, 0.2644, 0.1386**, and the grayscale version is **8.6074, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.8436, 0.3287, 0.4924**, and **3.5550, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **12.0639, 0.3197, 0.5731**, and if you desaturate by 10%, it is **12.5315, 0.3254, 0.5308**.

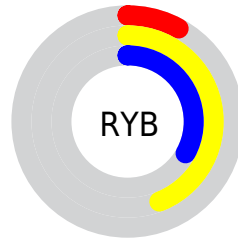
Distribution



Red (19%)

Green (44%)

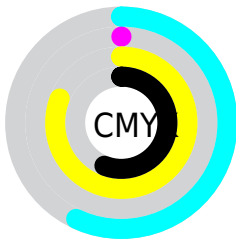
Blue (8%)



Red (8%)

Yellow (44%)

Blue (33%)

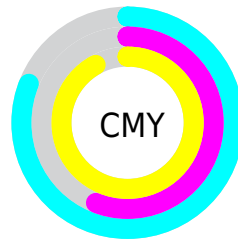


Cyan (57%)

Magenta (0%)

Yellow (81%)

Black (56%)



Cyan (81%)


Magenta (56%)

Yellow (92%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.2709, 0.3232, 0.5547 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 12.2709, 0.3232, 0.5547 by changing the saturation by 10% instead.


 12.2709, 0.3232,
0.5547


 12.2709, 0.3232,
0.5547


206.1906, 0.3255,
0.4107


 6.9285, 0.3140,
0.6038


 29.9875, 0.3283,
0.4929


 3.4174, 0.3022,
0.6978

 43.1305, 0.3286,
0.4726


 1.3533, 0.1875,
0.8125

 59.6425, 0.3283,
0.4567

 0.1819, 0.0000,
1.0000


 79.9078, 0.3279,
0.4439


 0.0000, 0.0000,
0.0000


 104.3109, 0.3273,
0.4333


 133.2361, 0.3267,


0.4245


 167.0679, 0.3261,
0.4171

 12.2709, 0.3232,
0.5547

 12.2709, 0.3232,
0.5547


 12.0639, 0.3197,
0.5731


 12.5315, 0.3254,
0.5308

 11.9159, 0.3166,
0.5868

 12.8481, 0.3263,
0.5029

 13.2245, 0.3260,
0.4726

 13.6639, 0.3245,
0.4417

 14.1693, 0.3223,
0.4114

■ 14.7434, 0.3195,
0.3827

■ 15.3886, 0.3164,
0.3561

■ 16.1075, 0.3131,
0.3319

■ 16.9023, 0.3098,
0.3101

Harmonies

Analogous

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



12.2709, 0.4269, 0.5201



12.2709, 0.3232, 0.5547



12.2709, 0.2220, 0.4792

Triad

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



12.2709, 0.3232, 0.5547



12.2709, 0.1353, 0.1758



12.2709, 0.4964, 0.2888

Complementary

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



12.2709, 0.3232, 0.5547



3.6358, 0.2644, 0.1386

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.



12.2709, 0.3822, 0.2253



12.2709, 0.3232, 0.5547



12.2709, 0.1787, 0.1635

Square

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



12.2709, 0.3232, 0.5547



12.2709, 0.1259, 0.2277



12.2709, 0.2622, 0.1812



12.2709, 0.5433, 0.3613

Rectangle

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



12.2709, 0.3232, 0.5547



12.2709, 0.1706, 0.3831



12.2709, 0.2622, 0.1812



12.2709, 0.4632, 0.2662

Sweetspot

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



12.2714, 0.3232, 0.5547



25.5466, 0.3205, 0.3922



9.9486, 0.4546, 0.4503



6.0694, 0.3213, 0.4002



58.7016, 0.3127, 0.3290



6.8385, 0.3127, 0.3290

Same Dimension

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



12.2714, 0.3232, 0.5547



20.9541, 0.3162, 0.5842



11.8953, 0.2908, 0.5344



3.8068, 0.3157, 0.3504



13.7649, 0.3162, 0.5872



68.1713, 0.3128, 0.5898

Inverse Universe

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



3.6358, 0.2644, 0.1386



5.0608, 0.2506, 0.1171



4.7856, 0.3622, 0.1934



3.4061, 0.3095, 0.3080



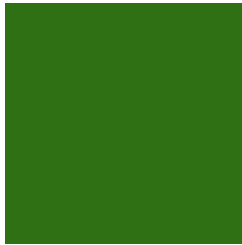
3.2485, 0.2496, 0.1149



15.7201, 0.2457, 0.1127

Previews

White Background



This preview shows how the Yxy color 12.2709, 0.3232, 0.5547 looks on a white background.

Color Contrast Check

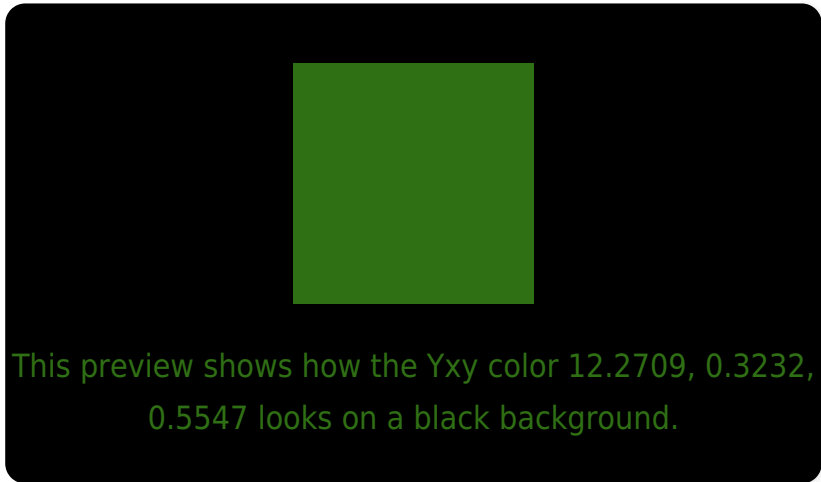
Large Text (above 18pt) WCAG AA ✓ Pass

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

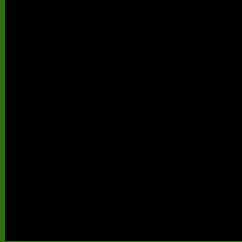
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.2709, 0.3232, 0.5547

Background



This preview shows how black text looks on a background with the Yxy color 12.2709, 0.3232, 0.5547.



This preview shows how white text looks on a background with the Yxy color 12.2709, 0.3232, 0.5547.

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

12.2709, 0.3232, 0.5547

Protanopia

12.0908, 0.4311, 0.4783

Deuteranopia

12.1386, 0.4491, 0.4421



Tritanopia

12.2167, 0.2542, 0.3071

Trichromacy



Original Color

12.2709, 0.3232, 0.5547

Protanomaly

11.7704, 0.3859, 0.5110

Deuteranomaly

11.6803, 0.3984, 0.4858

Tritanomaly

12.0244, 0.2837, 0.4009

Monochromacy



Original Color

12.2709, 0.3232, 0.5547

Achromatopsia

8.6500, 0.3127, 0.3290

Achromatomaly

9.6337, 0.3232, 0.4239

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2709, 0.3232, 0.5547 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(48, 112, 21)` looks like.

```
.text, #text, p{  
    color:rgb(48, 112, 21)  
}
```

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(48, 112, 21) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(48, 112, 21) }
```

Border

The CSS property to change the border of an element to Yxy 12.2709, 0.3232, 0.5547 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(48, 112, 21) }
```

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

```
.border{ border-color:rgb(48, 112, 21) }
```

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

Here you see how a box with a 4 pixel `rgb(48, 112, 21)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(48, 112, 21); -webkit-box-  
shadow:4px 4px 4px 4px rgb(48, 112, 21);  
box-shadow:4px 4px 4px 4px rgb(48, 112,  
21) }
```


Background

The CSS property to change the background color of an element to Yxy 12.2709, 0.3232, 0.5547 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(48, 112, 21) }
```

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

```
.background{ background-color: rgb(48, 112,  
21) }
```

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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