

Converting Colors

$Y_{xy}(13.6779, 0.3343, 0.4221)$

Have a look what the booklet for
Yxy(13.6779, 0.3343, 0.4221)
contains.

Yxy(13.7677, 0.3349, 0.4231)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(13.7677, 0.3349, 0.4231)

Conversions

Conversions Part 1

Format	Color
Hex	5A6E46
RGB	90, 110, 70
RGB Percent	35%, 43%, 27%
CMY	0.6470, 0.5686, 0.7255
CMYK	0.18, 0.00, 0.36, 0.57
HSL	90°, 22%, 35%
HSV	90°, 36%, 43%
XYZ	10.8977, 13.7677, 7.8747
YIQ	99.4600, 0.9200, -16.6800

Conversions

Conversions Part 2

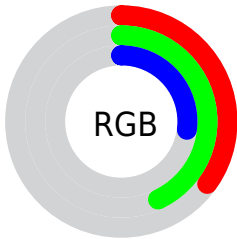
Format	Color
R_YB	70, 110, 90
Decimal	5926470
CIE Lab	43.90, -15.28, 19.94
CIE LCh	44, 25.123, 127.450
Yxy	13.7677, 0.3349, 0.4231
Android (android.graphics.Color)	4284116550 (0xFF5A6E46)
YUV	99.4600, -14.5238, -8.2964
Hunter-Lab	37.1049, -12.5082, 13.3904

Details

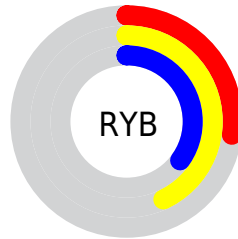
The Yxy color **13.7677, 0.3349, 0.4231** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **7.6771, 0.2824, 0.2352**, and the grayscale version is **12.6370, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.8353, 0.3304, 0.3984**, and **4.0334, 0.3401, 0.4722** is the 20% darker color. If you saturate the color by 10%, you get **13.3763, 0.3398, 0.4514**, and if you desaturate by 10%, it is **14.2061, 0.3292, 0.3953**.

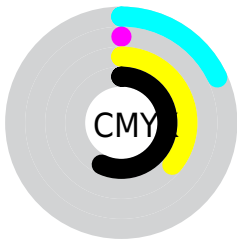
Distribution



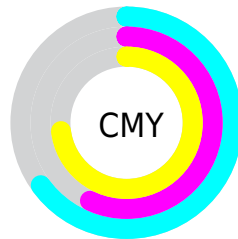
- Red (35%)
- Green (43%)
- Blue (27%)



- Red (27%)
- Yellow (43%)
- Blue (35%)



- Cyan (18%)
- Magenta (0%)
- Yellow (36%)
- Black (57%)




- Cyan (65%)
- Magenta (57%)
- Yellow (73%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 13.7677, 0.3349, 0.4231 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 13.7677, 0.3349, 0.4231 by changing the saturation by 10% instead.


 13.7677, 0.3349,
0.4231

 13.7677, 0.3349,
0.4231


215.7809, 0.3228,
0.3649


 7.9593, 0.3378,
0.4434


 32.6763, 0.3304,
0.3983


 4.0689, 0.3410,
0.4742

 46.5452, 0.3287,
0.3902

 1.7122, 0.3587,
0.5510

 63.8698, 0.3273,
0.3838

 0.4315, 0.0794,
0.9206

 85.0344, 0.3261,
0.3786

 0.0000, 0.0000,
0.0000

 110.4234, 0.3251,
0.3743

140.4212, 0.3242,

0.3707

175.4122, 0.3235,
0.3676

■ 13.7677, 0.3349,
0.4231

■ 13.7677, 0.3349,
0.4231

■ 13.3763, 0.3398,
0.4514

■ 14.2061, 0.3292,
0.3953

■ 13.0284, 0.3434,
0.4793

■ 14.6915, 0.3231,
0.3687

■ 12.7224, 0.3456,
0.5056


■ 15.2261, 0.3168,
0.3439


■ 12.4564, 0.3459,
0.5288


■ 15.8114, 0.3104,
0.3209

■ 12.2278, 0.3442,
0.5479

■ 16.4488, 0.3042,
0.3000

 12.0316, 0.3410,
0.5630

 17.1398, 0.2983,
0.2812

 11.9655, 0.3398,
0.5684

 17.8856, 0.2927,
0.2642

 18.6876, 0.2874,
0.2489

 19.5470, 0.2824,
0.2353

Harmonies

Analogous

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



13.7677, 0.3827, 0.4183



13.7677, 0.3349, 0.4231



13.7677, 0.2834, 0.3955

Triad

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



13.7677, 0.3349, 0.4231



13.7677, 0.2204, 0.2599



13.7677, 0.3865, 0.3085

Complementary

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



13.7677, 0.3349, 0.4231



7.6771, 0.2824, 0.2352

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.



13.7677, 0.3368, 0.2737



13.7677, 0.3349, 0.4231



13.7677, 0.2425, 0.2458

Square

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



13.7677, 0.3349, 0.4231



13.7677, 0.2200, 0.2947



13.7677, 0.2839, 0.2513



13.7677, 0.4152, 0.3494

Rectangle

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



13.7677, 0.3349, 0.4231



13.7677, 0.2540, 0.3632



13.7677, 0.2839, 0.2513



13.7677, 0.3714, 0.2959

Sweetspot

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



13.7683, 0.3349, 0.4231



26.2664, 0.3199, 0.3558



10.9565, 0.3786, 0.3725



6.0915, 0.3205, 0.3582



57.0482, 0.3127, 0.3290



6.3724, 0.3127, 0.3290

Same Dimension

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



13.7683, 0.3349, 0.4231



23.5691, 0.3392, 0.4480



12.9209, 0.3088, 0.4311



3.8375, 0.3184, 0.3502



14.3561, 0.3392, 0.5689



71.0011, 0.3354, 0.5719

Inverse Universe

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



7.6771, 0.2824, 0.2352



11.1133, 0.2729, 0.2104



8.7768, 0.3155, 0.2440



3.3747, 0.3066, 0.3078



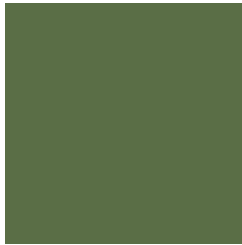
2.3099, 0.2059, 0.0908



10.9936, 0.2005, 0.0878

Previews

White Background



This preview shows how the Yxy color 13.7677, 0.3349, 0.4231 looks on a white background.

Color Contrast Check

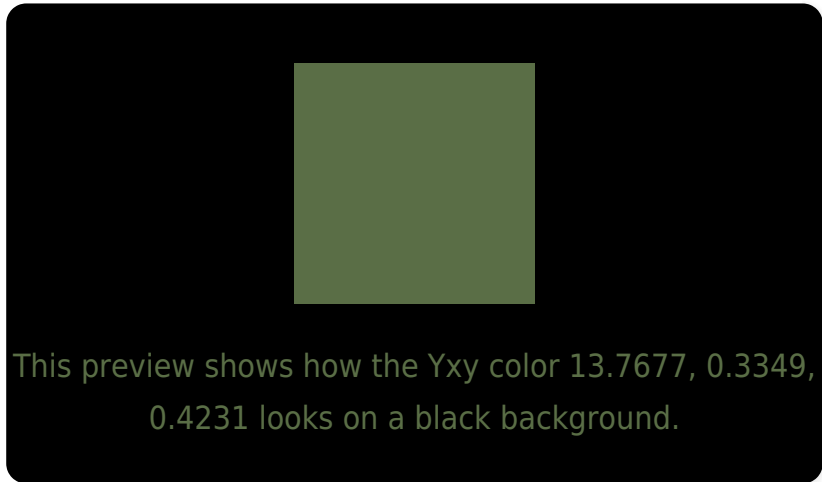
Large Text (above 18pt) WCAG AA ✓ Pass

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

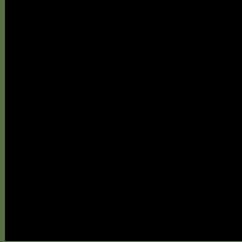
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 13.7677, 0.3349, 0.4231

Background



This preview shows how black text looks on a background with the Yxy color 13.7677, 0.3349, 0.4231.



This preview shows how white text looks on a background with the Yxy color 13.7677, 0.3349, 0.4231.

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

13.7677, 0.3349, 0.4231

Protanopia

13.8166, 0.3769, 0.4076

Deuteranopia

13.6025, 0.3895, 0.3839



Tritanopia

13.7822, 0.2906, 0.3115

Trichromacy



Original Color

13.7677, 0.3349, 0.4231

Protanomaly

13.7287, 0.3617, 0.4131

Deuteranomaly

13.5349, 0.3690, 0.3982

Tritanomaly

13.7581, 0.3076, 0.3517

Monochromacy



Original Color

13.7677, 0.3349, 0.4231

Achromatopsia

12.4772, 0.3127, 0.3290

Achromatomaly

12.8919, 0.3226, 0.3637

CSS Examples

Text

The CSS property to change the color of the text to Yxy 13.7677, 0.3349, 0.4231 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(90, 110, 70)` looks like.

```
.text, #text, p{  
    color:rgb(90, 110, 70)  
}
```

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(90, 110, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 110, 70) }
```

Border

The CSS property to change the border of an element to Yxy 13.7677, 0.3349, 0.4231 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(90, 110, 70) }
```

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

```
.border{ border-color:rgb(90, 110, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 110, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 110, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 110, 70);  
box-shadow:4px 4px 4px 4px rgb(90, 110,  
70) }
```


Background

The CSS property to change the background color of an element to Yxy 13.7677, 0.3349, 0.4231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 110, 70) }
```

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

```
.background{ background-color: rgb(90, 110,  
70) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor