

# Converting Colors

$Yxy(31.6951, 0.3360, 0.4575)$

Have a look what the booklet for  
Yxy(31.6951, 0.3360, 0.4575)  
contains.

<b>Yxy(31.7691, 0.3355, 0.4577)</b> .....	3
<b>Conversions</b> .....	4
<b>Details</b> .....	6
<b>Harmonies</b> .....	12
<b>Previews</b> .....	24
<b>Color Blindness Simulation</b> .....	27
<b>CSS Examples</b> .....	30

# Color

**Yxy(31.7691, 0.3355, 0.4577)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7AA559
RGB	122, 165, 89
RGB Percent	48%, 65%, 35%
CMY	0.5215, 0.3529, 0.6510
CMYK	0.26, 0.00, 0.46, 0.35
HSL	94°, 30%, 50%
HSV	94°, 46%, 65%
XYZ	23.2872, 31.7691, 14.3541
YIQ	143.4790, -1.2320, -32.7520

# Conversions

## Conversions Part 2

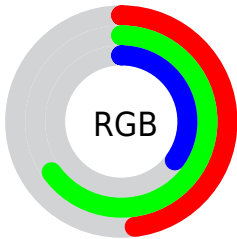
<b>Format</b>	<b>Color</b>
<b>RYB</b>	89, 165, 132
Decimal	8037721
CIELab	63.15, -28.30, 34.68
CIElCh	63, 44.762, 129.218
Yxy	31.7691, 0.3355, 0.4577
Android (android.graphics.Color)	4286227801 (0xFF7AA559)
YUV	143.4790, -26.8581, -18.8371
Hunter-Lab	56.3641, -24.8888, 24.3557

# Details

The Yxy color **31.7691, 0.3355, 0.4577** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **14.7628, 0.2759, 0.2049**, and the grayscale version is **27.7824, 0.3127, 0.3290**.

A 20% lighter version of the original color is **62.3100, 0.3330, 0.4302**, and **13.3099, 0.3371, 0.5039** is the 20% darker color. If you saturate the color by 10%, you get **30.8749, 0.3381, 0.4875**, and if you desaturate by 10%, it is **32.7936, 0.3316, 0.4274**.

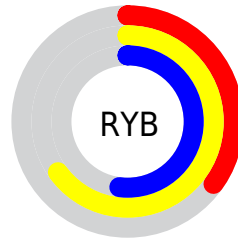
# Distribution



Red (48%)

Green (65%)

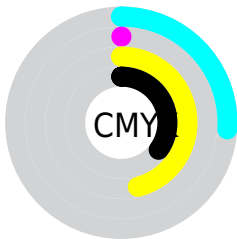
Blue (35%)



Red (35%)

Yellow (65%)

Blue (52%)

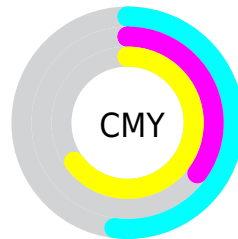


Cyan (26%)

Magenta (0%)

Yellow (46%)

Black (35%)



Cyan (52%)

Magenta (35%)


Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 31.7691, 0.3355, 0.4577 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 31.7691, 0.3355, 0.4577 by changing the saturation by 10% instead.





 31.7691, 0.3355,  
0.4577


 31.7691, 0.3355,  
0.4577


310.0661, 0.3260,  
0.3863

 21.1852, 0.3367,  
0.4778


 62.4489, 0.3328,  
0.4300

 13.2594, 0.3371,  
0.5049


 83.3137, 0.3315,  
0.4202

 7.6074, 0.3355,  
0.5427


 108.3741, 0.3304,  
0.4120

 3.8448, 0.3335,  
0.6086

 138.0147, 0.3293,  
0.4052

 1.5871, 0.3039,  
0.6961

172.6198, 0.3284,  
0.3994

 0.3489, 0.0000,  
1.0000

212.5738, 0.3275,

 0.0000, 0.0000,

0.3944

0.0000

258.2611, 0.3267,  
0.3901

■ 31.7691, 0.3355,  
0.4577

■ 31.7691, 0.3355,  
0.4577

■ 30.8749, 0.3381,  
0.4875

■ 32.7936, 0.3316,  
0.4274

■ 30.1007, 0.3391,  
0.5153

■ 33.9498, 0.3269,  
0.3978

■ 29.4415, 0.3381,  
0.5396


■ 35.2442, 0.3216,  
0.3697


■ 28.8895, 0.3353,  
0.5589


■ 36.6818, 0.3161,  
0.3437


■ 28.4354, 0.3307,  
0.5725


■ 38.2672, 0.3105,  
0.3199

 28.2765, 0.3288,  
0.5772

 40.0048, 0.3051,  
0.2985

 41.8988, 0.2998,  
0.2793

 43.9533, 0.2949,  
0.2621

 46.1720, 0.2902,  
0.2469

# Harmonies

## Analogous

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



31.7691, 0.4002, 0.4487



31.7691, 0.3355, 0.4577



31.7691, 0.2682, 0.4179

# Triad

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



31.7691, 0.3355, 0.4577



31.7691, 0.1937, 0.2351



31.7691, 0.4156, 0.3034

# Complementary

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



31.7691, 0.3355, 0.4577



14.7628, 0.2759, 0.2049

# 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.



31.7691, 0.3484, 0.2591



31.7691, 0.3355, 0.4577



31.7691, 0.2230, 0.2204

# Square

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



31.7691, 0.3355, 0.4577



31.7691, 0.1911, 0.2774



31.7691, 0.2772, 0.2296



31.7691, 0.4518, 0.3555



# Rectangle

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



31.7691, 0.3355, 0.4577



31.7691, 0.2311, 0.3707



31.7691, 0.2772, 0.2296



31.7691, 0.3954, 0.2874

# Sweetspot

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



31.7705, 0.3355, 0.4577



63.5677, 0.3206, 0.3649



24.8982, 0.4019, 0.3938



13.7865, 0.3218, 0.3704



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.



31.7705, 0.3355, 0.4577



55.3046, 0.3381, 0.4873



29.8198, 0.3035, 0.4631



8.0386, 0.3179, 0.3518



21.4205, 0.3295, 0.5766



0.4778, 0.3597, 0.5526



# Inverse Universe

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



14.7628, 0.2759, 0.2049



21.0881, 0.2652, 0.1776



17.7230, 0.3227, 0.2239



7.0482, 0.3071, 0.3064



3.8567, 0.2174, 0.0971



0.1083, 0.2555, 0.1181



# Previews

## White Background



This preview shows how the Yxy color 31.7691, 0.3355, 0.4577 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 31.7691, 0.3355, 0.4577 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

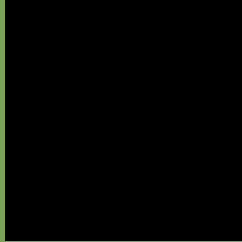
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**Yxy 31.7691, 0.3355, 0.4577**

## **Background**



This preview shows how black text looks on a background with the Yxy color 31.7691, 0.3355, 0.4577.



This preview shows how white text looks on a background with the Yxy color 31.7691, 0.3355, 0.4577.

# 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

31.7691, 0.3355, 0.4577

### Protanopia

31.3121, 0.3941, 0.4290

### Deuteranopia

31.2493, 0.4086, 0.4001



## Tritanopia

31.6724, 0.2820, 0.3102

# Trichromacy



**Original Color**

31.7691, 0.3355, 0.4577

**Protanomaly**

31.3651, 0.3715, 0.4397

**Deuteranomaly**

30.8062, 0.3802, 0.4205

**Tritanomaly**

31.4062, 0.3027, 0.3619

# Monochromacy



**Original Color**

31.7691, 0.3355, 0.4577

**Achromatopsia**

27.4677, 0.3127, 0.3290

**Achromatomaly**

28.7142, 0.3227, 0.3762

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 31.7691, 0.3355, 0.4577 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(122, 165, 89)` looks like.

```
.text, #text, p{  
    color:rgb(122, 165, 89)  
}
```

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(122, 165, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 165, 89) }
```

## Border

The CSS property to change the border of an element to Yxy 31.7691, 0.3355, 0.4577 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(122, 165, 89) }
```

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

```
.border{ border-color:rgb(122, 165, 89) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 165, 89)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 165, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 165, 89);  
box-shadow:4px 4px 4px 4px rgb(122, 165,  
89) }
```



# Background

The CSS property to change the background color of an element to Yxy 31.7691, 0.3355, 0.4577 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 165, 89) }
```

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

```
.background{ background-color: rgb(122,  
165, 89) }
```

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