

# Converting Colors

$Y_{xy}(17.4842, 0.3759, 0.6034)$

Have a look what the booklet for  
Yxy(17.4842, 0.3759, 0.6034)  
contains.

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**Color**

**Yxy(17.6707, 0.3553, 0.5561)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	508200
RGB	80, 130, 0
RGB Percent	31%, 51%, 0%
CMY	0.6863, 0.4902, 1.0000
CMYK	0.38, 0.00, 1.00, 0.49
HSL	83°, 100%, 25%
HSV	83°, 100%, 51%
XYZ	11.2901, 17.6707, 2.8154
YIQ	100.2300, 11.9300, -51.0300

# Conversions

## Conversions Part 2

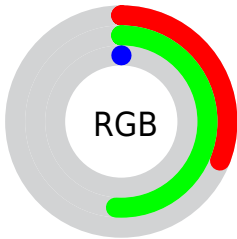
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 130, 50
Decimal	5276160
CIELab	49.09, -34.79, 53.09
CIELCh	49, 63.476, 123.239
Yxy	17.6707, 0.3553, 0.5561
Android (android.graphics.Color)	4283466240 (0xFF508200)
YUV	100.2300, -49.4134, -17.7417
Hunter-Lab	42.0365, -25.6229, 25.4547

# Details

The Yxy color **17.6707, 0.3553, 0.5561** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **2.2904, 0.1849, 0.0792**, and the grayscale version is **12.9321, 0.3127, 0.3290**.

A 20% lighter version of the original color is **39.3170, 0.3546, 0.5030**, and **5.9440, 0.3209, 0.5834** is the 20% darker color. If you saturate the color by 10%, you get **17.6715, 0.3553, 0.5561**, and if you desaturate by 10%, it is **17.9264, 0.3582, 0.5441**.

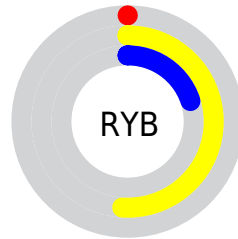
# Distribution



Red (31%)

Green (51%)

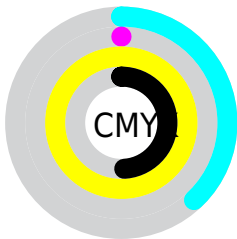
Blue (0%)



Red (0%)

Yellow (51%)

Blue (20%)

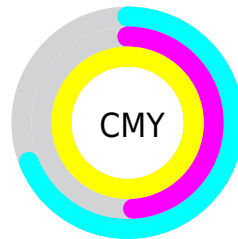


Cyan (38%)

Magenta (0%)

Yellow (100%)

Black (49%)



Cyan (69%)

Magenta (49%)


Yellow (100%)


# Brightness & Saturation Gradients

These gradients show how the Yxy color 17.6707, 0.3553, 0.5561 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 17.6707, 0.3553, 0.5561 by changing the saturation by 10% instead.





 17.6707, 0.3553,  
0.5561


 17.6707, 0.3553,  
0.5561


239.0083, 0.3416,  
0.4219

 10.7138, 0.3508,  
0.5937


 39.4754, 0.3546,  
0.5031


 5.8747, 0.3447,  
0.6553

 55.0920, 0.3527,  
0.4843


 2.7691, 0.3026,  
0.6974

 74.3640, 0.3507,  
0.4689

 1.0124, 0.0960,  
0.9040


 97.6758, 0.3486,  
0.4562

 0.0000, 0.0000,  
0.0000

 125.4117, 0.3467,  
0.4455


 157.9562, 0.3448,


0.4365


 195.6936, 0.3431,  
0.4287

 17.6707, 0.3553,  
0.5561


 17.6707, 0.3553,  
0.5561


 17.6715, 0.3553,  
0.5561

 17.9264, 0.3582,  
0.5441

 18.2143, 0.3596,  
0.5289

 18.5456, 0.3588,  
0.5092

 18.9235, 0.3558,  
0.4858

 19.3513, 0.3509,  
0.4600

■ 19.8315, 0.3445,  
0.4328

■ 20.3668, 0.3372,  
0.4053

■ 20.9593, 0.3292,  
0.3785

■ 21.6112, 0.3210,  
0.3530

# Harmonies

## Analogous

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



17.6707, 0.4563, 0.4989



17.6707, 0.3553, 0.5561



17.6707, 0.2498, 0.5171

# Triad

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



17.6707, 0.3553, 0.5561



17.6707, 0.1275, 0.1852



17.6707, 0.4683, 0.2675

# Complementary

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



17.6707, 0.3553, 0.5561



2.2904, 0.1849, 0.0792

# 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.



17.6707, 0.3438, 0.2083



17.6707, 0.3553, 0.5561



17.6707, 0.1603, 0.1624

# Square

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



17.6707, 0.3553, 0.5561



17.6707, 0.1281, 0.2529



17.6707, 0.2315, 0.1715



17.6707, 0.5407, 0.3383



# Rectangle

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



17.6707, 0.3553, 0.5561



17.6707, 0.1903, 0.4295



17.6707, 0.2315, 0.1715



17.6707, 0.4293, 0.2459

# Sweetspot

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



17.6715, 0.3553, 0.5561



35.7974, 0.3377, 0.4072



7.0133, 0.5693, 0.3861



8.0258, 0.3404, 0.4168



65.5931, 0.3127, 0.3290



8.8982, 0.3127, 0.3290



# Same Dimension

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



17.6715, 0.3553, 0.5561



31.0323, 0.3540, 0.5572



16.0695, 0.3039, 0.5969



4.9394, 0.3202, 0.3507



16.9468, 0.3554, 0.5560



0.0000, 0.0000, 0.0000



# Inverse Universe

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



2.2904, 0.1849, 0.0792



3.9537, 0.1827, 0.0780



5.2457, 0.2925, 0.1385



4.2861, 0.3048, 0.3071



2.1997, 0.1851, 0.0793



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the Yxy color 17.6707, 0.3553, 0.5561 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



This preview shows how the Yxy color 17.6707, 0.3553, 0.5561 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

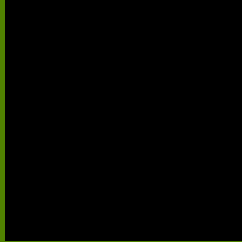
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 17.6707, 0.3553, 0.5561**

## Background



This preview shows how black text looks on a background with the Yxy color 17.6707, 0.3553, 0.5561.



This preview shows how white text looks on a background with the Yxy color 17.6707, 0.3553, 0.5561.

# 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

17.6707, 0.3553, 0.5561

### Protanopia

17.5479, 0.4388, 0.4898

### Deuteranopia

17.3374, 0.4594, 0.4521



## Tritanopia

17.6931, 0.2713, 0.3087

# Trichromacy



## Original Color

17.6707, 0.3553, 0.5561

## Protanomaly

17.3638, 0.4055, 0.5162

## Deuteranomaly

16.9006, 0.4210, 0.4910

## Tritanomaly

17.1637, 0.3154, 0.4200

# Monochromacy



## Original Color

17.6707, 0.3553, 0.5561

## Achromatopsia

12.7438, 0.3127, 0.3290

## Achromatomaly

14.0662, 0.3458, 0.4373

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 17.6707, 0.3553, 0.5561 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(80, 130, 0)` looks like.

```
.text, #text, p{  
    color:rgb(80, 130, 0)  
}
```

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(80, 130, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 130, 0) }
```

## Border

The CSS property to change the border of an element to Yxy 17.6707, 0.3553, 0.5561 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(80, 130, 0) }
```

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

```
.border{ border-color:rgb(80, 130, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 130, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 130, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 130, 0);  
box-shadow:4px 4px 4px 4px rgb(80, 130, 0)  
}
```



# Background

The CSS property to change the background color of an element to Yxy 17.6707, 0.3553, 0.5561 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 130, 0) }
```

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

```
.background{ background-color: rgb(80, 130,  
0) }
```

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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