

# Converting Colors

$Y_{xy}(21.8787, 0.2933, 0.3630)$

Have a look what the booklet for  
Yxy(21.8787, 0.2933, 0.3630)  
contains.

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# Color

**$Y_{xy}(21.7650, 0.2930, 0.3621)$**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	668877
RGB	102, 136, 119
RGB Percent	40%, 53%, 47%
CMY	0.6001, 0.4666, 0.5333
CMYK	0.25, 0.00, 0.12, 0.47
HSL	150°, 14%, 47%
HSV	150°, 25%, 53%
XYZ	17.6116, 21.7650, 20.7311
YIQ	123.8960, -14.8070, -12.4950

# Conversions

## Conversions Part 2

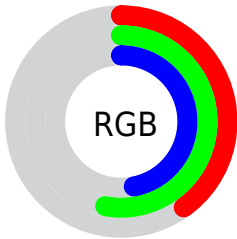
<b>Format</b>	<b>Color</b>
<b>RYB</b>	102, 125, 136
Decimal	6719607
CIELab	53.78, -15.71, 5.25
CIELCh	54, 16.563, 161.533
Yxy	21.7650, 0.2930, 0.3621
Android (android.graphics.Color)	4284909687 (0xFF668877)
YUV	123.8960, -2.4137, -19.2028
Hunter-Lab	46.6530, -14.2587, 6.3104

# Details

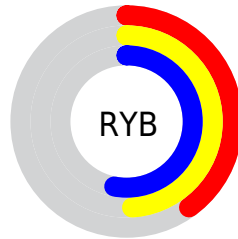
The Yxy color  $21.7650, 0.2930, 0.3621$  is a dark color, and the websafe version is hex  $669999$ . A complement of this color would be  $16.0625, 0.3384, 0.2982$ , and the grayscale version is  $20.1302, 0.3127, 0.3290$ .

A 20% lighter version of the original color is  $46.2055, 0.2979, 0.3541$ , and  $7.8948, 0.2844, 0.3750$  is the 20% darker color. If you saturate the color by 10%, you get  $20.8783, 0.2859, 0.3777$ , and if you desaturate by 10%, it is  $22.7955, 0.3007, 0.3478$ .

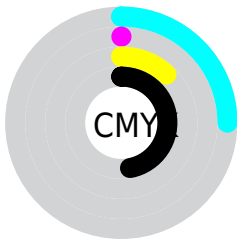
# Distribution



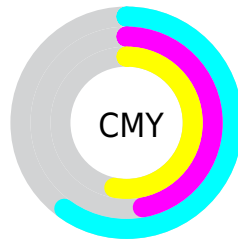
- Red (40%)
- Green (53%)
- Blue (47%)



- Red (40%)
- Yellow (49%)
- Blue (53%)



- Cyan (25%)
- Magenta (0%)
- Yellow (12%)
- Black (47%)




- Cyan (60%)
- Magenta (47%)
- Yellow (53%)

# Brightness & Saturation Gradients

These gradients show how the Yxy color 21.7650, 0.2930, 0.3621 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 21.7650, 0.2930, 0.3621 by changing the saturation by 10% instead.





 21.7650, 0.2930,  
0.3621


 21.7650, 0.2930,  
0.3621


261.3166, 0.3043,  
0.3431


 13.6843, 0.2896,  
0.3679


 46.3573, 0.2975,  
0.3545


 7.9014, 0.2847,  
0.3763


 63.6377, 0.2991,  
0.3518

 4.0319, 0.2772,  
0.3891

 84.7535, 0.3004,  
0.3497

 1.6914, 0.2643,  
0.4115

 110.0890, 0.3014,  
0.3479

 0.4181, 0.0267,  
0.8034

140.0287, 0.3023,  
0.3464

 0.0000, 0.0000,  
0.0000

174.9569, 0.3031,

0.3451

215.2581, 0.3037,  
0.3440

■ 21.7650, 0.2930,  
0.3621

■ 21.7650, 0.2930,  
0.3621

■ 20.8783, 0.2859,  
0.3777

■ 22.7955, 0.3007,  
0.3478

■ 20.1261, 0.2796,  
0.3946

■ 23.9734, 0.3086,  
0.3350

■ 19.5022, 0.2745,  
0.4125

■ 25.3052, 0.3167,  
0.3234

■ 18.9988, 0.2708,  
0.4312

■ 26.7964, 0.3248,  
0.3132

■ 18.6072, 0.2687,  
0.4502

■ 28.4522, 0.3327,  
0.3041

■ 18.3174, 0.2686,  
0.4691

■ 30.2776, 0.3404,  
0.2962

■ 18.1156, 0.2702,  
0.4873

■ 32.2774, 0.3477,  
0.2892

■ 18.0295, 0.2712,  
0.4962

■ 34.4561, 0.3548,  
0.2831

■ 36.8180, 0.3615,  
0.2778

# Harmonies

## Analogous

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



21.7650, 0.3225, 0.3794



21.7650, 0.2930, 0.3621



21.7650, 0.2695, 0.3349

# Triad

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



21.7650, 0.2930, 0.3621



21.7650, 0.2748, 0.2798



21.7650, 0.3713, 0.3460

# Complementary

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



21.7650, 0.2930, 0.3621



16.0625, 0.3384, 0.2982

# 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.



21.7650, 0.3573, 0.3211



21.7650, 0.2930, 0.3621



21.7650, 0.3007, 0.2841

# Square

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



21.7650, 0.2930, 0.3621



21.7650, 0.2594, 0.2878



21.7650, 0.3310, 0.2990



21.7650, 0.3685, 0.3681



# Rectangle

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



21.7650, 0.2930, 0.3621



21.7650, 0.2600, 0.3160



21.7650, 0.3310, 0.2990



21.7650, 0.3684, 0.3377

# Sweetspot

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



21.7659, 0.2930, 0.3621



41.5610, 0.3061, 0.3389



22.4904, 0.3288, 0.3931



9.5587, 0.3050, 0.3406



69.2071, 0.3127, 0.3290



10.0482, 0.3127, 0.3290



# Same Dimension

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



21.7659, 0.2930, 0.3621



37.4435, 0.2889, 0.3707



22.2113, 0.2773, 0.3289



5.6473, 0.3053, 0.3401



17.0640, 0.2711, 0.4958



0.1163, 0.2496, 0.4187



# Inverse Universe

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



16.0625, 0.3384, 0.2982



25.6174, 0.3459, 0.2909



15.6902, 0.3629, 0.3292



5.0875, 0.3208, 0.3181



5.3495, 0.4906, 0.2476



0.0385, 0.4037, 0.1997



# Previews

## White Background



This preview shows how the Yxy color 21.7650, 0.2930, 0.3621 looks on a white 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



# Black Background



This preview shows how the Yxy color 21.7650, 0.2930, 0.3621 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

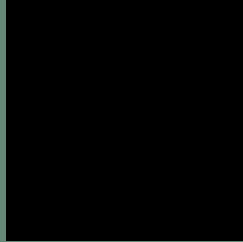
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**Yxy 21.7650, 0.2930, 0.3621**

## Background



This preview shows how black text looks on a background with the Yxy color 21.7650, 0.2930, 0.3621.



This preview shows how white text looks on a background with the Yxy color 21.7650, 0.2930, 0.3621.

# 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

21.7650, 0.2930, 0.3621

### Protanopia

21.7445, 0.3345, 0.3523

### Deuteranopia

21.6601, 0.3385, 0.3325



## Tritanopia

21.8840, 0.2754, 0.3105

# Trichromacy



## Original Color

21.7650, 0.2930, 0.3621

## Protanomaly

21.6311, 0.3184, 0.3569

## Deuteranomaly

21.4080, 0.3204, 0.3417

## Tritanomaly

21.7747, 0.2818, 0.3289

# Monochromacy



## Original Color

21.7650, 0.2930, 0.3621

## Achromatopsia

20.1556, 0.3127, 0.3290

## Achromatomaly

20.5565, 0.3052, 0.3403

# CSS Examples

## Text

The CSS property to change the color of the text to Yxy 21.7650, 0.2930, 0.3621 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(102, 136, 119)` looks like.

```
.text, #text, p{  
    color:rgb(102, 136, 119)  
}
```

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(102, 136, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 136, 119) }
```

## Border

The CSS property to change the border of an element to Yxy 21.7650, 0.2930, 0.3621 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(102, 136, 119) }
```

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

```
.border{ border-color:rgb(102, 136, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 136, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 136, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 136, 119);  
box-shadow:4px 4px 4px 4px rgb(102, 136,  
119) }
```



# Background

The CSS property to change the background color of an element to Yxy 21.7650, 0.2930, 0.3621 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 136, 119) }
```

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

```
.background{ background-color: rgb(102,  
136, 119) }
```

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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