

Converting Colors

$Y_{xy}(17.6647, 0.6401, 0.3300)$

Have a look what the booklet for
Yxy(17.6647, 0.6401, 0.3300)
contains.

Yxy(17.6622, 0.6401, 0.3300)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(17.6622, 0.6401, 0.3300)

Conversions

Conversions Part 1

Format	Color
Hex	EB0000
RGB	235, 0, 0
RGB Percent	92%, 0%, 0%
CMY	0.0785, 0.9996, 1.0000
CMYK	0.00, 1.00, 1.00, 0.08
HSL	0°, 100%, 46%
HSV	0°, 100%, 92%
XYZ	34.2593, 17.6622, 1.6003
YIQ	70.2650, 140.0600, 49.8200

Conversions

Conversions Part 2

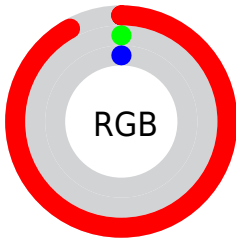
Format	Color
RYB	235, 0, 0
Decimal	15400960
CIELab	49.08, 75.30, 63.22
CIELCh	49, 98.324, 40.016
Yxy	17.6622, 0.6401, 0.3300
Android (android.graphics.Color)	4293591040 (0xFFEB0000)
YUV	70.2650, -34.6406, 144.4726
Hunter-Lab	42.0264, 71.9643, 27.1608

Details

The Yxy color **17.6622, 0.6401, 0.3300** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark washed red. A complement of this color would be **65.3487, 0.2246, 0.3286**, and the grayscale version is **6.2235, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.1998, 0.5587, 0.3563**, and **8.3248, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **17.6636, 0.6400, 0.3300**, and if you desaturate by 10%, it is **18.3619, 0.6242, 0.3300**.

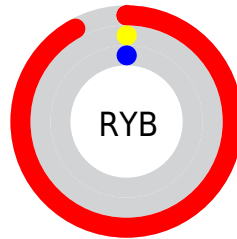
Distribution



Red (92%)

Green (0%)

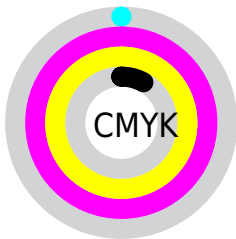
Blue (0%)



Red (92%)

Yellow (0%)

Blue (0%)

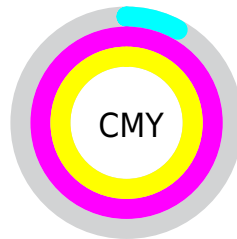


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (8%)



Cyan (8%)


Magenta (100%)


Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the Yxy color 17.6622, 0.6401, 0.3300 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 17.6622, 0.6401, 0.3300 by changing the saturation by 10% instead.


 17.6622, 0.6401,
0.3300


 17.6622, 0.6401,
0.3300


 238.9601, 0.4686,
0.3579


 10.7077, 0.6789,
0.3126


 39.4609, 0.5809,
0.3490


 5.8707, 0.7174,
0.2826

 55.0739, 0.5573,
0.3535

 2.7666, 0.7616,
0.2384

 74.3419, 0.5369,
0.3561

 1.0111, 0.8227,
0.1773

 97.6492, 0.5193,
0.3576


 0.0000, 1.0000,
0.0000


 125.3803, 0.5040,
0.3582

 0.0000, 0.0000,
0.0000


 157.9195, 0.4907,


0.3584


 195.6513, 0.4790,
0.3583


 17.6622, 0.6401,
0.3300


 17.6622, 0.6401,
0.3300


 17.6636, 0.6400,
0.3300

 18.3619, 0.6242,
0.3300

 19.9064, 0.5931,
0.3299

 22.5623, 0.5497,
0.3298

 26.4860, 0.5014,
0.3296

 31.8089, 0.4550,
0.3295

■ 38.6458, 0.4142,
0.3294

■ 47.1001, 0.3801,
0.3292

■ 57.2657, 0.3525,
0.3291

■ 69.2295, 0.3303,
0.3291

Harmonies

Analogous

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



17.6622, 0.5818, 0.2515



17.6622, 0.6401, 0.3300



17.6622, 0.5717, 0.4283

Triad

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



17.6622, 0.6401, 0.3300



17.6622, 0.1726, 0.6020



17.6622, 0.1237, 0.1090

Complementary

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



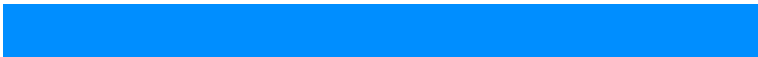
17.6622, 0.6401, 0.3300



65.3487, 0.2246, 0.3286

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.



17.6622, 0.0786, 0.1212



17.6622, 0.6401, 0.3300



17.6622, 0.0910, 0.3409

Square

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



17.6622, 0.6401, 0.3300



17.6622, 0.2988, 0.6763



17.6622, 0.0673, 0.1807



17.6622, 0.2234, 0.1277

Rectangle

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



17.6622, 0.6401, 0.3300



17.6622, 0.4872, 0.5128



17.6622, 0.0673, 0.1807



17.6622, 0.1040, 0.1094

Sweetspot

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



17.6636, 0.6400, 0.3300



56.5488, 0.3805, 0.3292



23.6590, 0.3209, 0.1542



11.1313, 0.3941, 0.3293



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



17.6636, 0.6400, 0.3300



21.2626, 0.6401, 0.3300



30.5000, 0.5429, 0.4071



15.0552, 0.3293, 0.3291



9.8316, 0.6400, 0.3300



0.7724, 0.6399, 0.3301

Inverse Universe

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



65.3487, 0.2246, 0.3286



78.6644, 0.2246, 0.3286



18.8366, 0.1765, 0.1552



17.1206, 0.2981, 0.3289



36.3721, 0.2246, 0.3286



2.8565, 0.2246, 0.3286

Previews

White Background



This preview shows how the Yxy color 17.6622, 0.6401, 0.3300 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 ✓ 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 17.6622, 0.6401, 0.3300

Background



This preview shows how black text looks on a background with the Yxy color 17.6622, 0.6401, 0.3300.



This preview shows how white text looks on a background with the Yxy color 17.6622, 0.6401, 0.3300.

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

17.6622, 0.6401, 0.3300

Protanopia

18.2739, 0.4269, 0.4726

Deuteranopia

18.1998, 0.4686, 0.4661



Tritanopia

17.8975, 0.6340, 0.3348

Trichromacy



Original Color

17.6622, 0.6401, 0.3300

Protanomaly

13.7619, 0.5462, 0.3899

Deuteranomaly

14.3380, 0.5693, 0.3861

Tritanomaly

17.8065, 0.6367, 0.3326

Monochromacy



Original Color

17.6622, 0.6401, 0.3300

Achromatopsia

6.1246, 0.3127, 0.3290

Achromatomaly

6.8121, 0.5137, 0.3296

CSS Examples

Text

The CSS property to change the color of the text to Yxy 17.6622, 0.6401, 0.3300 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(235, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(235, 0, 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(235, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(235, 0, 0) }
```

Border

The CSS property to change the border of an element to Yxy 17.6622, 0.6401, 0.3300 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(235, 0, 0) }
```

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

```
.border{ border-color:rgb(235, 0, 0) }
```

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

Here you see how a box with a 4 pixel rgb(235, 0, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(235, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(235, 0, 0); box-shadow:4px  
4px 4px 4px rgb(235, 0, 0) }
```


Background

The CSS property to change the background color of an element to Yxy 17.6622, 0.6401, 0.3300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(235, 0, 0) }
```

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

```
.background{ background-color: rgb(235, 0,  
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](#).

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