

Converting Colors

$Y_{xy}(20.0366, 0.3233, 0.3150)$

Have a look what the booklet for
Yxy(20.0366, 0.3233, 0.3150)
contains.

Yxy(20.1161, 0.3233, 0.3166)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(20.1161, 0.3233, 0.3166)

Conversions

Conversions Part 1

Format	Color
Hex	87787F
RGB	135, 120, 127
RGB Percent	53%, 47%, 50%
CMY	0.4705, 0.5294, 0.5019
CMYK	0.00, 0.11, 0.06, 0.47
HSL	332°, 6%, 50%
HSV	332°, 11%, 53%
XYZ	20.5418, 20.1161, 22.8800
YIQ	125.2830, 6.6930, 5.3570

Conversions

Conversions Part 2

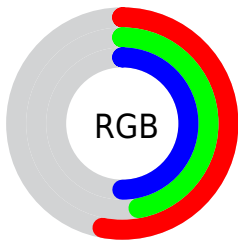
Format	Color
R_{YB}	135, 120, 127
Decimal	8878207
CIE _{Lab}	51.97, 7.09, -1.72
CIE _{LCh}	52, 7.295, 346.386
Yxy	20.1161, 0.3233, 0.3166
Android (android.graphics.Color)	4287068287 (0xFF87787F)
YUV	125.2830, 0.8465, 8.5218
Hunter-Lab	44.8510, 3.2640, 1.1498

Details

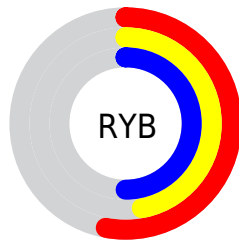
The Yxy color **20.1161, 0.3233, 0.3166** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **22.8861, 0.3033, 0.3417**, and the grayscale version is **20.6052, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.4917, 0.3204, 0.3186**, and **7.1161, 0.3271, 0.3129** is the 20% darker color. If you saturate the color by 10%, you get **16.9139, 0.3348, 0.3048**, and if you desaturate by 10%, it is **23.7915, 0.3137, 0.3278**.

Distribution



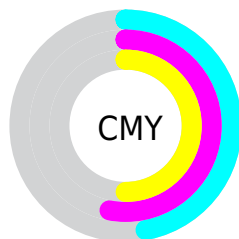
- Red (53%)
- Green (47%)
- Blue (50%)



- Red (53%)
- Yellow (47%)
- Blue (50%)



- Cyan (0%)
- Magenta (11%)
- Yellow (6%)
- Black (47%)



- Cyan (47%)
- Magenta (53%)
- Yellow (50%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 20.1161, 0.3233, 0.3166 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 20.1161, 0.3233, 0.3166 by changing the saturation by 10% instead.

■ 20.1161, 0.3233,
0.3166

■ 20.1161, 0.3233,
0.3166

252.5429, 0.3173,
0.3236

■ 12.4795, 0.3251,
0.3145

■ 43.6117, 0.3209,
0.3194

■ 7.0711, 0.3276,
0.3116

■ 60.2396, 0.3201,
0.3204

■ 3.5066, 0.3315,
0.3071

■ 80.6332, 0.3194,
0.3211

■ 1.4016, 0.3380,
0.2996

105.1771, 0.3188,
0.3218

■ 0.2179, 0.3979,
0.2281

134.2556, 0.3184,
0.3224

■ 0.0000, 0.0000,
0.0000

168.2532, 0.3180,

0.3228

207.5541, 0.3176,
0.3233

■ 20.1161, 0.3233,
0.3166

■ 20.1161, 0.3233,
0.3166

■ 16.9139, 0.3348,
0.3048

■ 23.7915, 0.3137,
0.3278

■ 14.1630, 0.3486,
0.2928

■ 27.9556, 0.3057,
0.3382

■ 11.8434, 0.3650,
0.2808

■ 32.6266, 0.2991,
0.3479

■ 9.9329, 0.3840,
0.2695

■ 37.8209, 0.2936,
0.3569

■ 8.4072, 0.4058,
0.2598

■ 43.5542, 0.2891,
0.3651

■ 7.2392, 0.4299,
0.2528

■ 49.8415, 0.2853,
0.3726

■ 6.3985, 0.4555,
0.2496

■ 56.6971, 0.2821,
0.3795

■ 5.8495, 0.4814,
0.2512

■ 64.1349, 0.2795,
0.3858

■ 5.5115, 0.5044,
0.2553

■ 72.1685, 0.2773,
0.3916

Harmonies

Analogous

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



20.1161, 0.3097, 0.3088



20.1161, 0.3233, 0.3166



20.1161, 0.3342, 0.3276

Triad

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



20.1161, 0.3233, 0.3166



20.1161, 0.3282, 0.3526



20.1161, 0.2869, 0.3180

Complementary

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



20.1161, 0.3233, 0.3166



22.8861, 0.3033, 0.3417

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.



20.1161, 0.2916, 0.3299



20.1161, 0.3233, 0.3166



20.1161, 0.3153, 0.3503

Square

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



20.1161, 0.3233, 0.3166



20.1161, 0.3370, 0.3484



20.1161, 0.3019, 0.3419



20.1161, 0.2889, 0.3094

Rectangle

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



20.1161, 0.3233, 0.3166



20.1161, 0.3384, 0.3354



20.1161, 0.3019, 0.3419



20.1161, 0.2878, 0.3217

Sweetspot

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



20.1170, 0.3233, 0.3166



41.2484, 0.3154, 0.3257



19.7716, 0.3054, 0.3020



9.4346, 0.3161, 0.3248



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.



20.1170, 0.3233, 0.3166



34.7029, 0.3256, 0.3141



20.0613, 0.3316, 0.3300



4.7222, 0.3212, 0.3189



5.0830, 0.5036, 0.2548



0.0191, 0.4119, 0.2043

Inverse Universe

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



20.1170, 0.3233, 0.3166



34.7029, 0.3256, 0.3141



22.9377, 0.2963, 0.3281



4.7222, 0.3212, 0.3189



5.0830, 0.5036, 0.2548



0.0191, 0.4119, 0.2043

Previews

White Background



This preview shows how the Yxy color 20.1161, 0.3233, 0.3166 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 20.1161, 0.3233, 0.3166 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

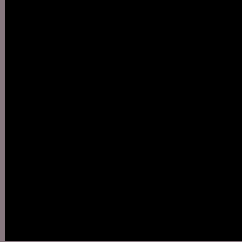
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.1161, 0.3233, 0.3166

Background



This preview shows how black text looks on a background with the Yxy color 20.1161, 0.3233, 0.3166.



This preview shows how white text looks on a background with the Yxy color 20.1161, 0.3233, 0.3166.

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

20.1161, 0.3233, 0.3166

Protanopia

20.1109, 0.3084, 0.3180

Deuteranopia

20.1161, 0.3233, 0.3166



Tritanopia

20.1688, 0.3209, 0.3131

Trichromacy



Original Color

20.1161, 0.3233, 0.3166

Protanomaly

20.1447, 0.3144, 0.3182

Deuteranomaly

20.1161, 0.3233, 0.3166

Tritanomaly

20.1424, 0.3221, 0.3149

Monochromacy



Original Color

20.1161, 0.3233, 0.3166

Achromatopsia

20.5079, 0.3127, 0.3290

Achromatomaly

20.3394, 0.3166, 0.3236

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.1161, 0.3233, 0.3166 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(135, 120, 127)` looks like.

```
.text, #text, p{  
    color:rgb(135, 120, 127)  
}
```

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(135, 120, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 120, 127) }
```

Border

The CSS property to change the border of an element to Yxy 20.1161, 0.3233, 0.3166 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(135, 120, 127) }
```

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

```
.border{ border-color:rgb(135, 120, 127) }
```

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

Here you see how a box with a 4 pixel rgb(135, 120, 127) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 120, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 120, 127);  
box-shadow:4px 4px 4px 4px rgb(135, 120,  
127) }
```


Background

The CSS property to change the background color of an element to Yxy 20.1161, 0.3233, 0.3166 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 120, 127) }
```

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

```
.background{ background-color: rgb(135,  
120, 127) }
```

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