

Converting Colors

$Y_{xy}(33.6296, 0.2454, 0.3128)$

Have a look what the booklet for
Yxy(33.6296, 0.2454, 0.3128)
contains.

Yxy(33.8043, 0.2455, 0.3127)	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(33.8043, 0.2455, 0.3127)

Conversions

Conversions Part 1

Format	Color
Hex	5AA9B3
RGB	90, 169, 179
RGB Percent	35%, 66%, 70%
CMY	0.6470, 0.3372, 0.2981
CMYK	0.50, 0.06, 0.00, 0.30
HSL	187°, 37%, 53%
HSV	187°, 50%, 70%
XYZ	26.5397, 33.8043, 47.7606
YIQ	146.5190, -50.2940, -13.6380

Conversions

Conversions Part 2

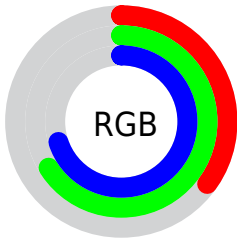
Format	Color
RYB	90, 132, 179
Decimal	5941683
CIELab	64.81, -21.50, -12.64
CIElCh	65, 24.940, 210.449
Yxy	33.8043, 0.2455, 0.3127
Android (android.graphics.Color)	4284131763 (0xFF5AA9B3)
YUV	146.5190, 16.0131, -49.5672
Hunter-Lab	58.1415, -20.2682, -8.0050

Details

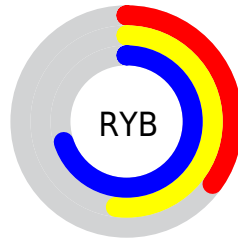
The Yxy color **33.8043, 0.2455, 0.3127** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **19.4305, 0.4420, 0.3437**, and the grayscale version is **28.9184, 0.3127, 0.3290**.

A 20% lighter version of the original color is **65.4205, 0.2581, 0.3155**, and **14.4758, 0.2254, 0.3076** is the 20% darker color. If you saturate the color by 10%, you get **32.2727, 0.2358, 0.3089**, and if you desaturate by 10%, it is **35.5660, 0.2568, 0.3164**.

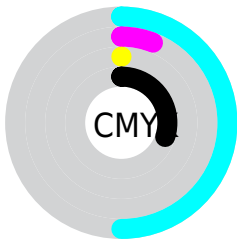
Distribution



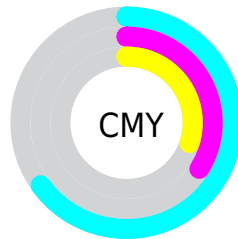
- Red (35%)
- Green (66%)
- Blue (70%)



- Red (35%)
- Yellow (52%)
- Blue (70%)



- Cyan (50%)
- Magenta (6%)
- Yellow (0%)
- Black (30%)



- Cyan (65%)
- Magenta (34%)
- Yellow (30%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 33.8043, 0.2455, 0.3127 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 33.8043, 0.2455, 0.3127 by changing the saturation by 10% instead.

■ 33.8043, 0.2455,
0.3127

■ 33.8043, 0.2455,
0.3127

■ 319.2586, 0.2801,
0.3221

■ 22.7433, 0.2366,
0.3099

■ 65.6292, 0.2583,
0.3164

■ 14.4041, 0.2250,
0.3061

■ 87.1619, 0.2630,
0.3177

■ 8.4022, 0.2094,
0.3004

■ 112.9540, 0.2670,
0.3188

■ 4.3534, 0.1874,
0.2915

■ 143.3898, 0.2704,
0.3197

■ 1.8731, 0.1543,
0.2758

■ 178.8538, 0.2733,
0.3204

■ 0.5322, 0.0000,
0.2551

■ 219.7303, 0.2759,

■ 0.0000, 0.0000,

0.3211

0.0000

266.4038, 0.2781,
0.3216

■ 33.8043, 0.2455,
0.3127

■ 33.8043, 0.2455,
0.3127

■ 32.2727, 0.2358,
0.3089

■ 35.5660, 0.2568,
0.3164

■ 30.9515, 0.2279,
0.3051

■ 37.5682, 0.2696,
0.3199

■ 29.8241, 0.2218,
0.3012

■ 39.8252, 0.2834,
0.3232

■ 28.8693, 0.2177,
0.2973

■ 42.3492, 0.2980,
0.3263

■ 28.0445, 0.2149,
0.2935

■ 45.1513, 0.3132,
0.3291

■ 28.0209, 0.2148,
0.2934

■ 48.2422, 0.3286,
0.3316

■ 51.6319, 0.3440,
0.3339

■ 55.3299, 0.3592,
0.3360

■ 59.3454, 0.3741,
0.3378

Harmonies

Analogous

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



33.8043, 0.2665, 0.3504



33.8043, 0.2455, 0.3127



33.8043, 0.2414, 0.2830

Triad

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



33.8043, 0.2455, 0.3127



33.8043, 0.3216, 0.2823



33.8043, 0.3719, 0.3919

Complementary

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



33.8043, 0.2455, 0.3127



19.4305, 0.4420, 0.3437

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.



33.8043, 0.3892, 0.3690



33.8043, 0.2455, 0.3127



33.8043, 0.3595, 0.3073

Square

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



33.8043, 0.2455, 0.3127



33.8043, 0.2834, 0.2679



33.8043, 0.3848, 0.3383



33.8043, 0.3390, 0.3985

Rectangle

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



33.8043, 0.2455, 0.3127



33.8043, 0.2485, 0.2710



33.8043, 0.3848, 0.3383



33.8043, 0.3798, 0.3857

Sweetspot

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



33.8056, 0.2455, 0.3127



73.3007, 0.2898, 0.3246



35.3040, 0.2999, 0.4689



16.0346, 0.2868, 0.3239



91.1408, 0.3127, 0.3290



17.8868, 0.3127, 0.3290

Same Dimension

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



33.8056, 0.2455, 0.3127



57.4866, 0.2347, 0.3084



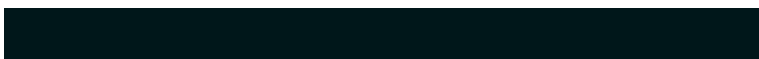
20.2470, 0.2311, 0.2368



9.4656, 0.2986, 0.3264



19.8663, 0.2150, 0.2939



0.6710, 0.2179, 0.3045

Inverse Universe

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



19.7600, 0.3305, 0.2221



29.9422, 0.3354, 0.2023



30.0816, 0.4081, 0.4050



8.6300, 0.3154, 0.3090



8.5456, 0.3509, 0.1707



0.2735, 0.3415, 0.1655

Previews

White Background



This preview shows how the Yxy color 33.8043, 0.2455, 0.3127 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 33.8043, 0.2455, 0.3127 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

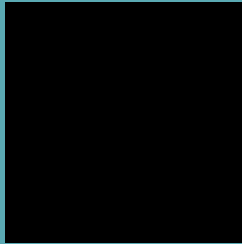
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

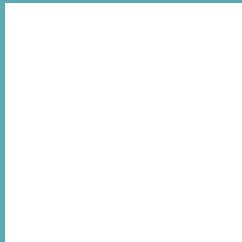
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 33.8043, 0.2455, 0.3127

Background



This preview shows how black text looks on a background with the Yxy color 33.8043, 0.2455, 0.3127.



This preview shows how white text looks on a background with the Yxy color 33.8043, 0.2455, 0.3127.

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

33.8043, 0.2455, 0.3127

Protanopia

33.3135, 0.2993, 0.3069

Deuteranopia

33.5723, 0.2919, 0.2862



Tritanopia

33.9775, 0.2443, 0.3080

Trichromacy



Original Color

33.8043, 0.2455, 0.3127

Protanomaly

32.9840, 0.2760, 0.3088

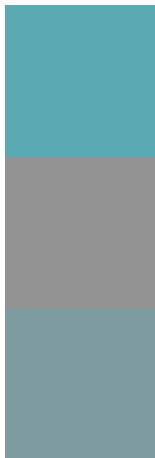
Deuteranomaly

33.2420, 0.2715, 0.2943

Tritanomaly

33.9363, 0.2448, 0.3096

Monochromacy



Original Color

33.8043, 0.2455, 0.3127

Achromatopsia

29.1771, 0.3127, 0.3290

Achromatomaly

30.3815, 0.2821, 0.3224

CSS Examples

Text

The CSS property to change the color of the text to Yxy 33.8043, 0.2455, 0.3127 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(90, 169, 179)` looks like.

```
.text, #text, p{  
    color:rgb(90, 169, 179)  
}
```

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(90, 169, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(90, 169, 179) }
```

Border

The CSS property to change the border of an element to Yxy 33.8043, 0.2455, 0.3127 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(90, 169, 179) }
```

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

```
.border{ border-color:rgb(90, 169, 179) }
```

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

Here you see how a box with a 4 pixel `rgb(90, 169, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(90, 169, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(90, 169, 179);  
box-shadow:4px 4px 4px 4px rgb(90, 169,  
179) }
```


Background

The CSS property to change the background color of an element to Yxy 33.8043, 0.2455, 0.3127 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(90, 169, 179) }
```

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

```
.background{ background-color: rgb(90, 169,  
179) }
```

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