

Converting Colors

$Y_{xy}(9.7843, 0.1844, 0.1836)$

Have a look what the booklet for
Yxy(9.7843, 0.1844, 0.1836)
contains.

Yxy(9.7810, 0.1843, 0.1834)	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(9.7810, 0.1843, 0.1834)

Conversions

Conversions Part 1

Format	Color
Hex	005A9E
RGB	0, 90, 158
RGB Percent	0%, 35%, 62%
CMY	0.9996, 0.6471, 0.3804
CMYK	1.00, 0.43, 0.00, 0.38
HSL	206°, 100%, 31%
HSV	206°, 100%, 62%
XYZ	9.8290, 9.7810, 33.7215
YIQ	70.8420, -75.4680, 2.0680

Conversions

Conversions Part 2

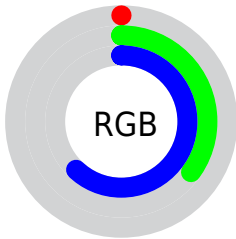
Format	Color
RYB	0, 57, 158
Decimal	23198
CIELab	37.45, 4.32, -43.17
CIELCh	37, 43.381, 275.711
Yxy	9.7810, 0.1843, 0.1834
Android (android.graphics.Color)	4278213278 (0xFF005A9E)
YUV	70.8420, 42.9689, -62.1284
Hunter-Lab	31.2746, 1.3686, -42.0366

Details

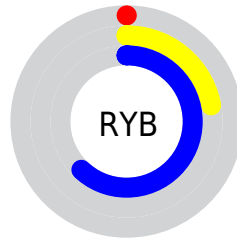
The Yxy color **9.7810, 0.1843, 0.1834** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **11.4178, 0.5588, 0.3944**, and the grayscale version is **6.2139, 0.3127, 0.3290**.

A 20% lighter version of the original color is **25.4916, 0.2145, 0.2176**, and **2.9174, 0.1729, 0.1425** is the 20% darker color. If you saturate the color by 10%, you get **9.7736, 0.1843, 0.1833**, and if you desaturate by 10%, it is **11.0910, 0.1912, 0.1993**.

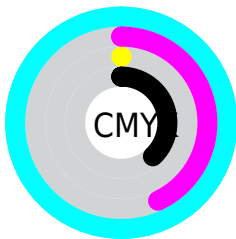
Distribution



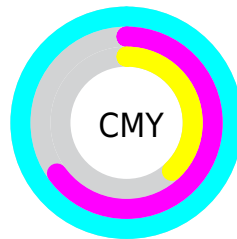
- Red (0%)
- Green (35%)
- Blue (62%)



- Red (0%)
- Yellow (22%)
- Blue (62%)



- Cyan (100%)
- Magenta (43%)
- Yellow (0%)
- Black (38%)



- Cyan (100%)
- Magenta (65%)
- Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 9.7810, 0.1843, 0.1834 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 9.7810, 0.1843, 0.1834 by changing the saturation by 10% instead.

■ 9.7810, 0.1843,
0.1834

■ 9.7810, 0.1843,
0.1834

■ 189.1018, 0.2599,
0.2678

■ 5.2540, 0.1620,
0.1592

■ 25.3828, 0.2145,
0.2167

■ 2.3971, 0.1321,
0.1272

■ 37.2263, 0.2250,
0.2284

■ 0.8244, 0.0921,
0.0853

■ 52.2775, 0.2336,
0.2381

■ 0.0000, 0.0000,
0.0000

■ 70.9207, 0.2407,
0.2460

■ 93.5404, 0.2467,
0.2528

■ 120.5208, 0.2517,

0.2585

152.2465, 0.2561,
0.2634

■ 9.7810, 0.1843,
0.1834

■ 9.7810, 0.1843,
0.1834

■ 9.7736, 0.1843,
0.1833

■ 11.0910, 0.1912,
0.1993

■ 12.5930, 0.1997,
0.2155

■ 14.3264, 0.2103,
0.2320

■ 16.3091, 0.2228,
0.2484

■ 18.5568, 0.2366,
0.2642

■ 21.0834, 0.2514,
0.2793

■ 23.9015, 0.2668,
0.2935

■ 27.0231, 0.2823,
0.3065

■ 30.4591, 0.2977,
0.3184

Harmonies

Analogous

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



9.7810, 0.1516, 0.2031



9.7810, 0.1843, 0.1834



9.7810, 0.2511, 0.1932

Triad

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



9.7810, 0.1843, 0.1834



9.7810, 0.5072, 0.3482



9.7810, 0.2559, 0.4737

Complementary

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



9.7810, 0.1843, 0.1834



11.4178, 0.5588, 0.3944

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.



9.7810, 0.3478, 0.5190



9.7810, 0.1843, 0.1834



9.7810, 0.4971, 0.4181

Square

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



9.7810, 0.1843, 0.1834



9.7810, 0.4502, 0.2830



9.7810, 0.4356, 0.4851



9.7810, 0.1849, 0.3624

Rectangle

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



9.7810, 0.1843, 0.1834



9.7810, 0.3139, 0.2140



9.7810, 0.4356, 0.4851



9.7810, 0.2855, 0.4989

Sweetspot

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



9.7813, 0.1843, 0.1834



43.0518, 0.2658, 0.2926



24.8496, 0.2793, 0.5254



9.2362, 0.2596, 0.2871



80.7346, 0.3127, 0.3290



13.9985, 0.3127, 0.3290

Same Dimension

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



9.7813, 0.1843, 0.1834



17.3433, 0.1835, 0.1804



2.7640, 0.1518, 0.0664



7.0305, 0.2988, 0.3191



7.9061, 0.1846, 0.1846



0.2244, 0.2023, 0.2482

Inverse Universe

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



8.0103, 0.4645, 0.2333



14.4989, 0.4681, 0.2352



27.4752, 0.4345, 0.4932



6.7062, 0.3200, 0.3163



6.4203, 0.4631, 0.2325



0.1232, 0.3940, 0.1944

Previews

White Background



This preview shows how the Yxy color 9.7810, 0.1843, 0.1834 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 ✓ Pass

Black Background



This preview shows how the Yxy color 9.7810, 0.1843, 0.1834 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

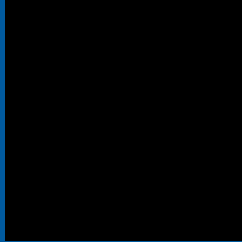
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 9.7810, 0.1843, 0.1834

Background



This preview shows how black text looks on a background with the Yxy color 9.7810, 0.1843, 0.1834.



This preview shows how white text looks on a background with the Yxy color 9.7810, 0.1843, 0.1834.

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

9.7810, 0.1843, 0.1834

Protanopia

9.8585, 0.2062, 0.1874

Deuteranopia

9.9001, 0.1874, 0.1844



Tritanopia

9.7553, 0.2192, 0.3091

Trichromacy



Original Color
9.7810, 0.1843, 0.1834

Protanomaly
9.5580, 0.1936, 0.1840

Deuteranomaly
9.8521, 0.1861, 0.1840

Tritanomaly
9.6397, 0.2040, 0.2544

Monochromacy



Original Color
9.7810, 0.1843, 0.1834

Achromatopsia
6.3010, 0.3127, 0.3290

Achromatomaly
6.9859, 0.2309, 0.2579

CSS Examples

Text

The CSS property to change the color of the text to Yxy 9.7810, 0.1843, 0.1834 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(0, 90, 158)` looks like.

```
.text, #text, p{  
    color:rgb(0, 90, 158)  
}
```

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(0, 90, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 90, 158) }
```

Border

The CSS property to change the border of an element to Yxy 9.7810, 0.1843, 0.1834 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(0, 90, 158) }
```

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

```
.border{ border-color:rgb(0, 90, 158) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 90, 158)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 90, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 90, 158);  
box-shadow:4px 4px 4px 4px rgb(0, 90, 158)  
}
```


Background

The CSS property to change the background color of an element to Yxy 9.7810, 0.1843, 0.1834 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 90, 158) }
```

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

```
.background{ background-color: rgb(0, 90,  
158) }
```

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