

Converting Colors

$Y_{xy}(20.1443, 0.4090, 0.4881)$

Have a look what the booklet for
Yxy(20.1443, 0.4090, 0.4881)
contains.

Yxy(20.1213, 0.4091, 0.4884)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(20.1213, 0.4091, 0.4884)

Conversions

Conversions Part 1

Format	Color
Hex	80801E
RGB	128, 128, 30
RGB Percent	50%, 50%, 12%
CMY	0.4981, 0.4980, 0.8824
CMYK	0.00, 0.00, 0.77, 0.50
HSL	60°, 62%, 31%
HSV	60°, 77%, 50%
XYZ	16.8543, 20.1213, 4.2228
YIQ	116.8280, 31.4580, -30.4780

Conversions

Conversions Part 2

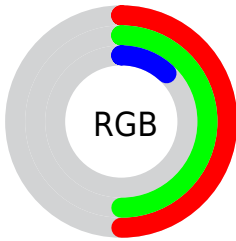
Format	Color
R_{YB}	30, 128, 30
Decimal	8421406
CIE _{Lab}	51.97, -12.09, 49.50
CIE _{LCh}	52, 50.953, 103.721
Yxy	20.1213, 0.4091, 0.4884
Android (android.graphics.Color)	4286611486 (0xFF80801E)
YUV	116.8280, -42.8062, 9.7978
Hunter-Lab	44.8568, -11.4306, 25.8182

Details

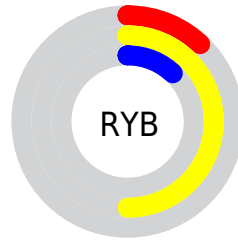
The Yxy color **20.1213, 0.4091, 0.4884** is a dark color, and the websafe version is hex **999933**. A complement of this color would be **2.7629, 0.1727, 0.0974**, and the grayscale version is **17.8605, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.7396, 0.3918, 0.4556**, and **7.0878, 0.4113, 0.5116** is the 20% darker color. If you saturate the color by 10%, you get **20.0694, 0.4147, 0.4977**, and if you desaturate by 10%, it is **20.2016, 0.4011, 0.4751**.

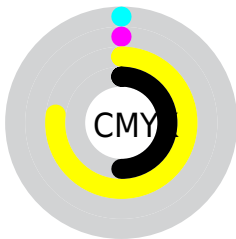
Distribution



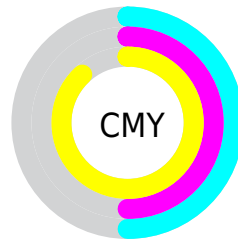
- Red (50%)
- Green (50%)
- Blue (12%)



- Red (12%)
- Yellow (50%)
- Blue (12%)



- Cyan (0%)
- Magenta (0%)
- Yellow (77%)
- Black (50%)





- Cyan (50%)
- Magenta (50%)
- Yellow (88%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.1213, 0.4091, 0.4884 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 20.1213, 0.4091, 0.4884 by changing the saturation by 10% instead.


 20.1213, 0.4091,
0.4884


 20.1213, 0.4091,
0.4884


252.5710, 0.3607,
0.4004


 12.4832, 0.4181,
0.5104


 43.6205, 0.3929,
0.4555


 7.0737, 0.4291,
0.5408


 60.2504, 0.3862,
0.4433


 3.5082, 0.4302,
0.5698

 80.6463, 0.3804,
0.4331


 1.4025, 0.4091,
0.5909

 105.1928, 0.3753,
0.4245

 0.2185, 0.0000,
1.0000

 134.2740, 0.3710,
0.4171

 0.0000, 0.0000,
0.0000

 168.2746, 0.3671,

0.4108

207.5788, 0.3637,
0.4053

20.1213, 0.4091,
0.4884

20.1213, 0.4091,
0.4884

20.0694, 0.4147,
0.4977

20.2016, 0.4011,
0.4751

20.0378, 0.4182,
0.5035

20.3105, 0.3908,
0.4581

20.0281, 0.4193,
0.5053

20.4513, 0.3787,
0.4382

20.6263, 0.3653,
0.4159

20.8375, 0.3510,
0.3924

■ 21.0869, 0.3365,
0.3683

■ 21.3761, 0.3220,
0.3443

■ 21.7068, 0.3080,
0.3212

■ 22.0806, 0.2947,
0.2991

Harmonies

Analogous

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



20.1213, 0.4743, 0.4326



20.1213, 0.4091, 0.4884



20.1213, 0.3239, 0.5004

Triad

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



20.1213, 0.4091, 0.4884



20.1213, 0.1576, 0.2481



20.1213, 0.3731, 0.2471

Complementary

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



20.1213, 0.4091, 0.4884



2.7629, 0.1727, 0.0974

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.



20.1213, 0.2779, 0.2080



20.1213, 0.4091, 0.4884



20.1213, 0.1663, 0.2033

Square

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



20.1213, 0.4091, 0.4884



20.1213, 0.1814, 0.3325



20.1213, 0.2061, 0.1921



20.1213, 0.4595, 0.3027

Rectangle

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



20.1213, 0.4091, 0.4884



20.1213, 0.2665, 0.4662



20.1213, 0.2061, 0.1921



20.1213, 0.3403, 0.2318

Sweetspot

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



20.1222, 0.4091, 0.4884



36.8096, 0.3466, 0.3851



5.6115, 0.5642, 0.3297



8.5880, 0.3511, 0.3925



65.5931, 0.3127, 0.3290



8.8982, 0.3127, 0.3290

Same Dimension

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



20.1222, 0.4091, 0.4884



35.2883, 0.4174, 0.5021



17.1961, 0.3457, 0.5319



5.0194, 0.3256, 0.3503



19.8569, 0.4193, 0.5053



0.0000, 0.0000, 0.0000

Inverse Universe

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



2.7629, 0.1727, 0.0974



3.1263, 0.1544, 0.0673



4.1489, 0.2330, 0.1274



4.2118, 0.2993, 0.3067



1.5455, 0.1500, 0.0600



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the Yxy color 20.1213, 0.4091, 0.4884 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 20.1213, 0.4091, 0.4884 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

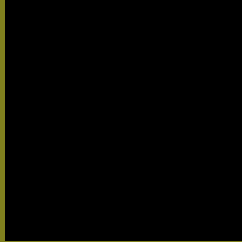
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.1213, 0.4091, 0.4884

Background



This preview shows how black text looks on a background with the Yxy color 20.1213, 0.4091, 0.4884.



This preview shows how white text looks on a background with the Yxy color 20.1213, 0.4091, 0.4884.

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

20.1213, 0.4091, 0.4884

Protanopia

19.9930, 0.4290, 0.4745

Deuteranopia

20.1461, 0.4550, 0.4473



Tritanopia

20.0129, 0.3223, 0.3114

Trichromacy



Original Color

20.1213, 0.4091, 0.4884

Protanomaly

19.9068, 0.4225, 0.4793

Deuteranomaly

20.1399, 0.4383, 0.4625

Tritanomaly

19.6959, 0.3615, 0.3826

Monochromacy



Original Color

20.1213, 0.4091, 0.4884

Achromatopsia

17.7888, 0.3127, 0.3290

Achromatomaly

18.3956, 0.3554, 0.3996

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.1213, 0.4091, 0.4884 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(128, 128, 30)` looks like.

```
.text, #text, p{  
    color:rgb(128, 128, 30)  
}
```

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(128, 128, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 128, 30) }
```

Border

The CSS property to change the border of an element to Yxy 20.1213, 0.4091, 0.4884 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(128, 128, 30) }
```

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

```
.border{ border-color:rgb(128, 128, 30) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 128, 30)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 128, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 128, 30);  
box-shadow:4px 4px 4px 4px rgb(128, 128,  
30) }
```


Background

The CSS property to change the background color of an element to Yxy 20.1213, 0.4091, 0.4884 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 128, 30) }
```

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

```
.background{ background-color: rgb(128,  
128, 30) }
```

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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