

Converting Colors

$Y_{xy}(20.3252, 0.3002, 0.5679)$

Have a look what the booklet for
Yxy(20.3252, 0.3002, 0.5679)
contains.

Yxy(20.3120, 0.3002, 0.5678)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(20.3120, 0.3002, 0.5678)

Conversions

Conversions Part 1

Format	Color
Hex	1D9020
RGB	29, 144, 32
RGB Percent	11%, 56%, 13%
CMY	0.8866, 0.4353, 0.8744
CMYK	0.80, 0.00, 0.78, 0.44
HSL	122°, 67%, 34%
HSV	122°, 80%, 56%
XYZ	10.7391, 20.3120, 4.7221
YIQ	96.8470, -32.5880, -59.2120

Conversions

Conversions Part 2

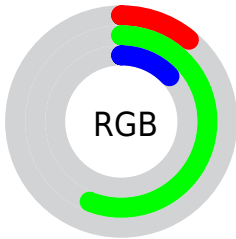
Format	Color
RYB	29, 141, 144
Decimal	1937440
CIELab	52.19, -52.19, 47.30
CIElCh	52, 70.437, 137.817
Yxy	20.3120, 0.3002, 0.5678
Android (android.graphics.Color)	4280127520 (0xFF1D9020)
YUV	96.8470, -31.9696, -59.5018
Hunter-Lab	45.0688, -36.3371, 25.3361

Details

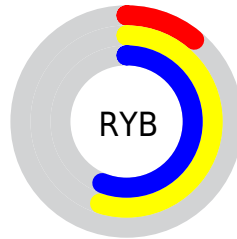
The Yxy color **20.3120, 0.3002, 0.5678** is a dark color, and the websafe version is hex **339933**. A complement of this color would be **8.7250, 0.3255, 0.1696**, and the grayscale version is **11.9956, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.9356, 0.3100, 0.5086**, and **7.6543, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **20.0897, 0.2997, 0.5862**, and if you desaturate by 10%, it is **20.6665, 0.3011, 0.5422**.

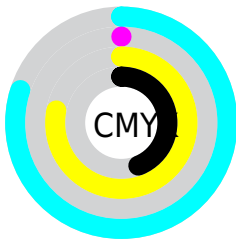
Distribution



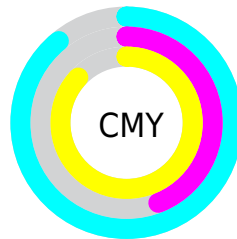
- Red (11%)
- Green (56%)
- Blue (13%)



- Red (11%)
- Yellow (55%)
- Blue (56%)



- Cyan (80%)
- Magenta (0%)
- Yellow (78%)
- Black (44%)





- Cyan (89%)
- Magenta (44%)
- Yellow (87%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.3120, 0.3002, 0.5678 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 20.3120, 0.3002, 0.5678 by changing the saturation by 10% instead.


 20.3120, 0.3002,
0.5678


 20.3120, 0.3002,
0.5678


253.5992, 0.3167,
0.4231


 12.6220, 0.2891,
0.6125


 43.9397, 0.3104,
0.5086

 7.1688, 0.2697,
0.6762


 60.6461, 0.3127,
0.4883


 3.5679, 0.2324,
0.7676

 81.1269, 0.3142,
0.4720

 1.4349, 0.0058,
0.9942

 105.7664, 0.3152,
0.4587

 0.2422, 0.0000,
1.0000

 134.9490, 0.3159,
0.4475

 0.0000, 0.0000,
0.0000

 169.0590, 0.3163,

0.4381

208.4810, 0.3165,
0.4301

■ 20.3120, 0.3002,
0.5678

■ 20.3120, 0.3002,
0.5678

■ 20.0897, 0.2997,
0.5862

■ 20.6665, 0.3011,
0.5422

■ 19.9579, 0.2994,
0.5976

■ 21.1663, 0.3025,
0.5114

■ 19.9569, 0.2994,
0.5977

■ 21.8260, 0.3041,
0.4777

■ 22.6574, 0.3059,
0.4436

■ 23.6716, 0.3077,
0.4107

■ 24.8784, 0.3095,
0.3803

■ 26.2870, 0.3112,
0.3530

■ 27.9062, 0.3127,
0.3288

■ 29.7441, 0.3141,
0.3077

Harmonies

Analogous

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



20.3120, 0.4105, 0.5427



20.3120, 0.3002, 0.5678



20.3120, 0.1983, 0.4646

Triad

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



20.3120, 0.3002, 0.5678



20.3120, 0.1322, 0.1625



20.3120, 0.5250, 0.2982

Complementary

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



20.3120, 0.3002, 0.5678



8.7250, 0.3255, 0.1696

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.



20.3120, 0.4115, 0.2302



20.3120, 0.3002, 0.5678



20.3120, 0.1839, 0.1564

Square

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



20.3120, 0.3002, 0.5678



20.3120, 0.1160, 0.2066



20.3120, 0.2794, 0.1800



20.3120, 0.5561, 0.3739

Rectangle

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



20.3120, 0.3002, 0.5678



20.3120, 0.1506, 0.3573



20.3120, 0.2794, 0.1800



20.3120, 0.4941, 0.2744

Sweetspot

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



20.3128, 0.3002, 0.5678



42.8588, 0.3087, 0.3939



25.7953, 0.4095, 0.4944



9.6747, 0.3081, 0.4038



72.9347, 0.3127, 0.3290



11.2805, 0.3127, 0.3290

Same Dimension

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



20.3128, 0.3002, 0.5678



35.2563, 0.2997, 0.5952



20.9194, 0.2671, 0.4559



6.0316, 0.3113, 0.3511



17.3778, 0.2993, 0.5975



0.1665, 0.2960, 0.5857

Inverse Universe

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



8.7250, 0.3255, 0.1696



13.9696, 0.3274, 0.1591



7.4533, 0.4485, 0.2465



5.5086, 0.3141, 0.3079



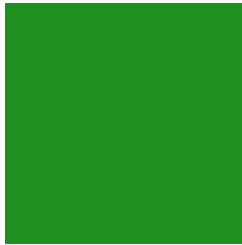
6.8159, 0.3276, 0.1578



0.0657, 0.3240, 0.1558

Previews

White Background



This preview shows how the Yxy color 20.3120, 0.3002, 0.5678 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 20.3120, 0.3002, 0.5678 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 20.3120, 0.3002, 0.5678

Background



This preview shows how black text looks on a background with the Yxy color 20.3120, 0.3002, 0.5678.



This preview shows how white text looks on a background with the Yxy color 20.3120, 0.3002, 0.5678.

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

20.3120, 0.3002, 0.5678

Protanopia

19.9834, 0.4300, 0.4760

Deuteranopia

19.7745, 0.4471, 0.4389



Tritanopia

20.2183, 0.2400, 0.3068

Trichromacy



Original Color

20.3120, 0.3002, 0.5678



Protanomaly

18.9740, 0.3687, 0.5188



Deuteranomaly

18.5832, 0.3787, 0.4929



Tritanomaly

19.9065, 0.2645, 0.4049

Monochromacy



Original Color

20.3120, 0.3002, 0.5678



Achromatopsia

11.9538, 0.3127, 0.3290



Achromatomaly

13.8934, 0.3067, 0.4308

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.3120, 0.3002, 0.5678 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(29, 144, 32)` looks like.

```
.text, #text, p{  
    color:rgb(29, 144, 32)  
}
```

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(29, 144, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(29, 144, 32) }
```

Border

The CSS property to change the border of an element to Yxy 20.3120, 0.3002, 0.5678 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(29, 144, 32) }
```

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

```
.border{ border-color:rgb(29, 144, 32) }
```

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

Here you see how a box with a 4 pixel `rgb(29, 144, 32)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(29, 144, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(29, 144, 32);  
box-shadow:4px 4px 4px 4px rgb(29, 144,  
32) }
```


Background

The CSS property to change the background color of an element to Yxy 20.3120, 0.3002, 0.5678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(29, 144, 32) }
```

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

```
.background{ background-color: rgb(29, 144,  
32) }
```

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