

Converting Colors

$Y_{xy}(21.2020, 0.2990, 0.4665)$

Have a look what the booklet for
Yxy(21.2020, 0.2990, 0.4665)
contains.

Yxy(21.1982, 0.2993, 0.4674)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(21.1982, 0.2993, 0.4674)

Conversions

Conversions Part 1

Format	Color
Hex	468E4E
RGB	70, 142, 78
RGB Percent	27%, 56%, 31%
CMY	0.7254, 0.4431, 0.6942
CMYK	0.51, 0.00, 0.45, 0.44
HSL	127°, 34%, 42%
HSV	127°, 51%, 56%
XYZ	13.5743, 21.1982, 10.5810
YIQ	113.1760, -22.3680, -35.1680

Conversions

Conversions Part 2

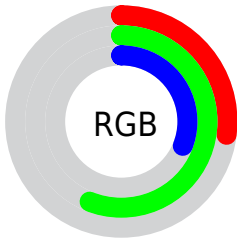
Format	Color
R_{YB}	70, 135, 142
Decimal	4623950
CIE _{Lab}	53.17, -36.77, 27.30
CIE _{LCh}	53, 45.800, 143.409
Yxy	21.1982, 0.2993, 0.4674
Android (android.graphics.Color)	4282814030 (0xFF468E4E)
YUV	113.1760, -17.3418, -37.8654
Hunter-Lab	46.0415, -27.9460, 18.6034

Details

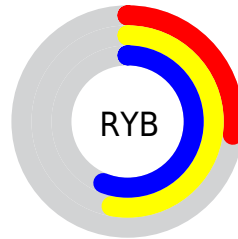
The Yxy color **21.1982, 0.2993, 0.4674** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **11.8553, 0.3304, 0.2219**, and the grayscale version is **16.6271, 0.3127, 0.3290**.

A 20% lighter version of the original color is **45.2493, 0.3043, 0.4329**, and **7.6327, 0.2864, 0.5347** is the 20% darker color. If you saturate the color by 10%, you get **20.5678, 0.2975, 0.4992**, and if you desaturate by 10%, it is **21.9900, 0.3016, 0.4358**.

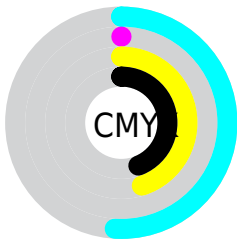
Distribution



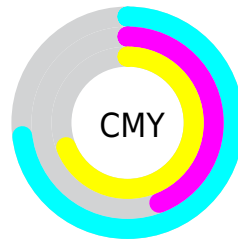
- Red (27%)
- Green (56%)
- Blue (31%)



- Red (27%)
- Yellow (53%)
- Blue (56%)



- Cyan (51%)
- Magenta (0%)
- Yellow (45%)
- Black (44%)





- Cyan (73%)
- Magenta (44%)
- Yellow (69%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 21.1982, 0.2993, 0.4674 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 21.1982, 0.2993, 0.4674 by changing the saturation by 10% instead.


 21.1982, 0.2993,
0.4674

 21.1982, 0.2993,
0.4674


258.3299, 0.3098,
0.3845


 13.2690, 0.2944,
0.4942


 45.4172, 0.3045,
0.4332

 7.6140, 0.2860,
0.5331


 62.4757, 0.3060,
0.4216


 3.8490, 0.2700,
0.5937

 83.3461, 0.3070,
0.4124

 1.5894, 0.2348,
0.7652

 108.4127, 0.3079,
0.4048

 0.3505, 0.0000,
1.0000

 138.0600, 0.3085,
0.3984

 0.0000, 0.0000,
0.0000

172.6724, 0.3090,

0.3931

212.6343, 0.3094,
0.3885

■ 21.1982, 0.2993,
0.4674

■ 21.1982, 0.2993,
0.4674

■ 20.5678, 0.2975,
0.4992

■ 21.9900, 0.3016,
0.4358

■ 20.0853, 0.2964,
0.5292

■ 22.9506, 0.3042,
0.4056

■ 19.7392, 0.2961,
0.5555

■ 24.0898, 0.3070,
0.3778

■ 19.5151, 0.2967,
0.5763

■ 25.4161, 0.3098,
0.3527

■ 19.3832, 0.2972,
0.5900

■ 26.9375, 0.3125,
0.3304

■ 28.6615, 0.3151,
0.3110

■ 30.5949, 0.3175,
0.2940

■ 32.7447, 0.3198,
0.2793

■ 35.1172, 0.3218,
0.2666

Harmonies

Analogous

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



21.1982, 0.3778, 0.4802



21.1982, 0.2993, 0.4674



21.1982, 0.2286, 0.3953

Triad

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



21.1982, 0.2993, 0.4674



21.1982, 0.1888, 0.2096



21.1982, 0.4592, 0.3253

Complementary

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



21.1982, 0.2993, 0.4674



11.8553, 0.3304, 0.2219

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.



21.1982, 0.3939, 0.2707



21.1982, 0.2993, 0.4674



21.1982, 0.2351, 0.2071

Square

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



21.1982, 0.2993, 0.4674



21.1982, 0.1716, 0.2409



21.1982, 0.3084, 0.2289



21.1982, 0.4761, 0.3851

Rectangle

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



21.1982, 0.2993, 0.4674



21.1982, 0.1955, 0.3343



21.1982, 0.3084, 0.2289



21.1982, 0.4419, 0.3061

Sweetspot

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



21.1991, 0.2993, 0.4674



43.6959, 0.3085, 0.3639



24.9235, 0.3759, 0.4517



9.6640, 0.3080, 0.3686



71.0566, 0.3127, 0.3290



10.6539, 0.3127, 0.3290

Same Dimension

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



21.1991, 0.2993, 0.4674



36.1177, 0.2973, 0.5040



21.8462, 0.2706, 0.3891



6.0385, 0.3102, 0.3491



17.4042, 0.2971, 0.5895



0.1679, 0.2849, 0.5457

Inverse Universe

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



11.8553, 0.3304, 0.2219



17.6726, 0.3352, 0.2020



11.0304, 0.3928, 0.2780



5.5009, 0.3153, 0.3097



6.5239, 0.3501, 0.1702



0.0643, 0.3342, 0.1615

Previews

White Background



This preview shows how the Yxy color 21.1982, 0.2993, 0.4674 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 21.1982, 0.2993, 0.4674 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 21.1982, 0.2993, 0.4674

Background



This preview shows how black text looks on a background with the Yxy color 21.1982, 0.2993, 0.4674.



This preview shows how white text looks on a background with the Yxy color 21.1982, 0.2993, 0.4674.

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

21.1982, 0.2993, 0.4674

Protanopia

20.8786, 0.3910, 0.4235

Deuteranopia

20.9747, 0.3995, 0.3926



Tritanopia

21.0258, 0.2544, 0.3077

Trichromacy



Original Color

21.1982, 0.2993, 0.4674

Protanomaly

20.5743, 0.3526, 0.4417

Deuteranomaly

20.4322, 0.3572, 0.4204

Tritanomaly

20.9773, 0.2708, 0.3617

Monochromacy



Original Color

21.1982, 0.2993, 0.4674

Achromatopsia

16.5132, 0.3127, 0.3290

Achromatomaly

17.8768, 0.3068, 0.3799

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.1982, 0.2993, 0.4674 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(70, 142, 78)` looks like.

```
.text, #text, p{  
    color:rgb(70, 142, 78)  
}
```

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(70, 142, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 142, 78) }
```

Border

The CSS property to change the border of an element to Yxy 21.1982, 0.2993, 0.4674 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(70, 142, 78) }
```

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

```
.border{ border-color:rgb(70, 142, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 142, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 142, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 142, 78);  
box-shadow:4px 4px 4px 4px rgb(70, 142,  
78) }
```


Background

The CSS property to change the background color of an element to Yxy 21.1982, 0.2993, 0.4674 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 142, 78) }
```

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

```
.background{ background-color: rgb(70, 142,  
78) }
```

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