

Converting Colors

$Y_{xy}(23.7855, 0.2810, 0.4222)$

Have a look what the booklet for
Yxy(23.7855, 0.2810, 0.4222)
contains.

Yxy(23.8721, 0.2810, 0.4214)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(23.8721, 0.2810, 0.4214)

Conversions

Conversions Part 1

Format	Color
Hex	489568
RGB	72, 149, 104
RGB Percent	28%, 58%, 41%
CMY	0.7176, 0.4157, 0.5922
CMYK	0.52, 0.00, 0.30, 0.42
HSL	145°, 35%, 43%
HSV	145°, 52%, 58%
XYZ	15.9185, 23.8721, 16.8589
YIQ	120.8470, -31.4470, -30.3190

Conversions

Conversions Part 2

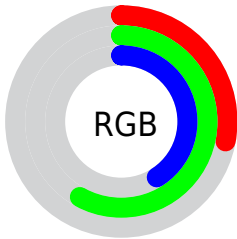
Format	Color
R_{YB}	72, 126, 149
Decimal	4756840
CIE _{Lab}	55.96, -34.56, 16.67
CIE _{LCh}	56, 38.374, 154.248
Yxy	23.8721, 0.2810, 0.4214
Android (android.graphics.Color)	4282946920 (0xFF489568)
YUV	120.8470, -8.3056, -42.8388
Hunter-Lab	48.8591, -27.3473, 13.7433

Details

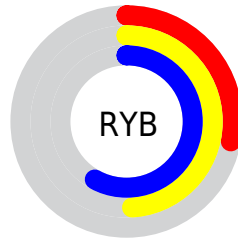
The Yxy color **23.8721, 0.2810, 0.4214** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **12.3122, 0.3695, 0.2538**, and the grayscale version is **19.1046, 0.3127, 0.3290**.

A 20% lighter version of the original color is **49.9879, 0.2892, 0.4004**, and **8.9093, 0.2653, 0.4600** is the 20% darker color. If you saturate the color by 10%, you get **23.2000, 0.2775, 0.4434**, and if you desaturate by 10%, it is **24.7033, 0.2858, 0.4003**.

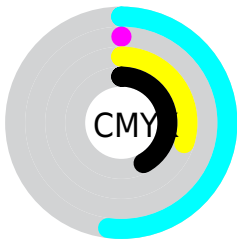
Distribution



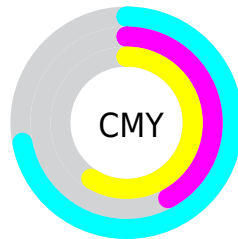
- Red (28%)
- Green (58%)
- Blue (41%)



- Red (28%)
- Yellow (49%)
- Blue (58%)



- Cyan (52%)
- Magenta (0%)
- Yellow (30%)
- Black (42%)




- Cyan (72%)
- Magenta (42%)
- Yellow (59%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 23.8721, 0.2810, 0.4214 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 23.8721, 0.2810, 0.4214 by changing the saturation by 10% instead.


 23.8721, 0.2810,
0.4214


 23.8721, 0.2810,
0.4214


272.1732, 0.2999,
0.3675


 15.2388, 0.2749,
0.4383


 49.8214, 0.2888,
0.3995

 8.9871, 0.2659,
0.4626

 67.9062, 0.2914,
0.3920

 4.7328, 0.2516,
0.5002

 89.9102, 0.2935,
0.3860

 2.0913, 0.2267,
0.5675

 116.2179, 0.2953,
0.3810

 0.6598, 0.0000,
1.0000

 147.2137, 0.2967,
0.3768

 0.0000, 0.0000,
0.0000

183.2819, 0.2979,

0.3732

224.8069, 0.2990,
0.3701

■ 23.8721, 0.2810,
0.4214

■ 23.8721, 0.2810,
0.4214

■ 23.2000, 0.2775,
0.4434

■ 24.7033, 0.2858,
0.4003

■ 22.6733, 0.2756,
0.4658

■ 25.7003, 0.2915,
0.3806

■ 22.2807, 0.2754,
0.4878

■ 26.8730, 0.2979,
0.3625

■ 22.0080, 0.2770,
0.5088

■ 28.2298, 0.3046,
0.3460

■ 21.8419, 0.2792,
0.5251

■ 29.7782, 0.3116,
0.3313

■ 31.5256, 0.3185,
0.3182

■ 33.4789, 0.3253,
0.3067

■ 35.6446, 0.3319,
0.2965

■ 38.0289, 0.3383,
0.2876

Harmonies

Analogous

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



23.8721, 0.3457, 0.4516



23.8721, 0.2810, 0.4214



23.8721, 0.2282, 0.3564

Triad

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



23.8721, 0.2810, 0.4214



23.8721, 0.2212, 0.2265



23.8721, 0.4410, 0.3465

Complementary

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



23.8721, 0.2810, 0.4214



12.3122, 0.3695, 0.2538

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.



23.8721, 0.4007, 0.2973



23.8721, 0.2810, 0.4214



23.8721, 0.2693, 0.2315

Square

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



23.8721, 0.2810, 0.4214



23.8721, 0.1973, 0.2450



23.8721, 0.3351, 0.2568



23.8721, 0.4412, 0.3967

Rectangle

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



23.8721, 0.2810, 0.4214



23.8721, 0.2060, 0.3103



23.8721, 0.3351, 0.2568



23.8721, 0.4317, 0.3296

Sweetspot

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



23.8731, 0.2810, 0.4214



49.3805, 0.3014, 0.3535



25.8300, 0.3509, 0.4667



10.8454, 0.3002, 0.3565



74.8414, 0.3127, 0.3290



11.9280, 0.3127, 0.3290

Same Dimension

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



23.8731, 0.2810, 0.4214



41.3796, 0.2771, 0.4470



24.8062, 0.2528, 0.3436



6.5060, 0.3063, 0.3422



18.3880, 0.2788, 0.5238



0.2307, 0.2557, 0.4405

Inverse Universe

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



12.3122, 0.3695, 0.2538



18.3042, 0.3887, 0.2400



11.6018, 0.4404, 0.3163



5.8689, 0.3197, 0.3161



5.9649, 0.4562, 0.2287



0.0789, 0.3842, 0.1890

Previews

White Background



This preview shows how the Yxy color 23.8721, 0.2810, 0.4214 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 23.8721, 0.2810, 0.4214 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

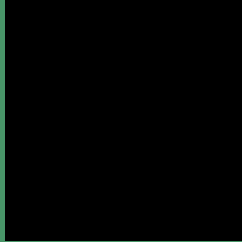
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 23.8721, 0.2810, 0.4214

Background



This preview shows how black text looks on a background with the Yxy color 23.8721, 0.2810, 0.4214.



This preview shows how white text looks on a background with the Yxy color 23.8721, 0.2810, 0.4214.

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

23.8721, 0.2810, 0.4214

Protanopia

23.4778, 0.3643, 0.3910

Deuteranopia

23.5110, 0.3678, 0.3603



Tritanopia

23.9093, 0.2504, 0.3086

Trichromacy



Original Color

23.8721, 0.2810, 0.4214

Protanomaly

23.1672, 0.3278, 0.4024

Deuteranomaly

23.0298, 0.3305, 0.3822

Tritanomaly

23.7338, 0.2608, 0.3463

Monochromacy



Original Color

23.8721, 0.2810, 0.4214

Achromatopsia

19.1202, 0.3127, 0.3290

Achromatomaly

20.3540, 0.2978, 0.3608

CSS Examples

Text

The CSS property to change the color of the text to Yxy 23.8721, 0.2810, 0.4214 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(72, 149, 104)` looks like.

```
.text, #text, p{  
    color:rgb(72, 149, 104)  
}
```

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(72, 149, 104) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 149, 104) }
```

Border

The CSS property to change the border of an element to Yxy 23.8721, 0.2810, 0.4214 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(72, 149, 104) }
```

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

```
.border{ border-color:rgb(72, 149, 104) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 149, 104)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 149, 104); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 149, 104);  
box-shadow:4px 4px 4px 4px rgb(72, 149,  
104) }
```


Background

The CSS property to change the background color of an element to Yxy 23.8721, 0.2810, 0.4214 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 149, 104) }
```

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

```
.background{ background-color: rgb(72, 149,  
104) }
```

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