

Converting Colors

$Y_{xy}(20.2422, 0.3159, 0.5155)$

Have a look what the booklet for
Yxy(20.2422, 0.3159, 0.5155)
contains.

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Color

Yxy(20.2422, 0.3159, 0.5155)

Conversions

Conversions Part 1

Format	Color
Hex	448C35
RGB	68, 140, 53
RGB Percent	27%, 55%, 21%
CMY	0.7333, 0.4510, 0.7922
CMYK	0.51, 0.00, 0.62, 0.45
HSL	110°, 45%, 38%
HSV	110°, 62%, 55%
XYZ	12.4045, 20.2422, 6.6204
YIQ	108.5540, -14.9850, -42.3210

Conversions

Conversions Part 2

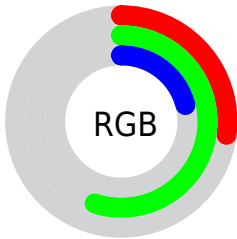
Format	Color
RYB	53, 140, 125
Decimal	4492341
CIELab	52.11, -39.96, 38.79
CIELCh	52, 55.686, 135.852
Yxy	20.2422, 0.3159, 0.5155
Android (android.graphics.Color)	4282682421 (0xFF448C35)
YUV	108.5540, -27.3881, -35.5659
Hunter-Lab	44.9913, -29.5209, 22.7695

Details

The Yxy color **20.2422, 0.3159, 0.5155** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **8.7988, 0.2951, 0.1795**, and the grayscale version is **15.2424, 0.3127, 0.3290**.

A 20% lighter version of the original color is **43.7004, 0.3195, 0.4691**, and **7.1448, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **19.7563, 0.3141, 0.5445**, and if you desaturate by 10%, it is **20.8498, 0.3168, 0.4834**.

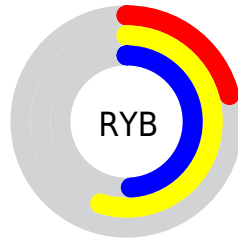
Distribution



Red (27%)

Green (55%)

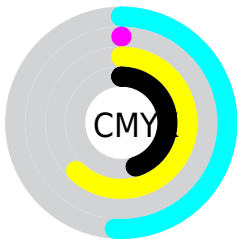
Blue (21%)



Red (21%)

Yellow (55%)

Blue (49%)

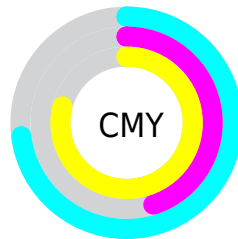


Cyan (51%)

Magenta (0%)

Yellow (62%)

Black (45%)



Cyan (73%)


Magenta (45%)


Yellow (79%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.2422, 0.3159, 0.5155 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 20.2422, 0.3159, 0.5155 by changing the saturation by 10% instead.


 20.2422, 0.3159,
0.5155


 20.2422, 0.3159,
0.5155


253.2233, 0.3197,
0.4032


 12.5712, 0.3109,
0.5510


 43.8229, 0.3196,
0.4694


 7.1340, 0.3005,
0.6008


 60.5014, 0.3202,
0.4537


 3.5460, 0.2917,
0.7083

 80.9512, 0.3204,
0.4411

 1.4230, 0.1735,
0.8265

 105.5566, 0.3204,
0.4308

 0.2336, 0.0000,
1.0000

 134.7022, 0.3203,
0.4222

 0.0000, 0.0000,
0.0000

 168.7722, 0.3201,

0.4149

208.1511, 0.3199,
0.4086

■ 20.2422, 0.3159,
0.5155

■ 20.2422, 0.3159,
0.5155

■ 19.7563, 0.3141,
0.5445

■ 20.8498, 0.3168,
0.4834

■ 19.3813, 0.3116,
0.5682

■ 21.5840, 0.3170,
0.4503

■ 19.1086, 0.3085,
0.5851

■ 22.4525, 0.3166,
0.4179

■ 18.9531, 0.3063,
0.5950

■ 23.4616, 0.3157,
0.3873

■ 24.6172, 0.3145,
0.3593

■ 25.9250, 0.3130,
0.3340

■ 27.3903, 0.3115,
0.3117

■ 29.0180, 0.3099,
0.2919

■ 30.8130, 0.3083,
0.2747

Harmonies

Analogous

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



20.2422, 0.4081, 0.5037



20.2422, 0.3159, 0.5155



20.2422, 0.2277, 0.4407

Triad

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



20.2422, 0.3159, 0.5155



20.2422, 0.1582, 0.1919



20.2422, 0.4777, 0.3040

Complementary

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



20.2422, 0.3159, 0.5155



8.7988, 0.2951, 0.1795

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.



20.2422, 0.3856, 0.2445



20.2422, 0.3159, 0.5155



20.2422, 0.2023, 0.1829

Square

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



20.2422, 0.3159, 0.5155



20.2422, 0.1464, 0.2357



20.2422, 0.2812, 0.2017



20.2422, 0.5123, 0.3715

Rectangle

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



20.2422, 0.3159, 0.5155



20.2422, 0.1838, 0.3620



20.2422, 0.2812, 0.2017



20.2422, 0.4516, 0.2829

Sweetspot

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



20.2431, 0.3159, 0.5155



41.8956, 0.3154, 0.3794



20.2609, 0.4129, 0.4480



9.5395, 0.3157, 0.3868



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.



20.2431, 0.3159, 0.5155



34.5132, 0.3131, 0.5557



20.1011, 0.2841, 0.4638



5.6470, 0.3141, 0.3514



16.8464, 0.3066, 0.5948



0.1164, 0.3290, 0.5770

Inverse Universe

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



8.7988, 0.2951, 0.1795



12.4667, 0.2890, 0.1545



9.3013, 0.3686, 0.2280



5.0861, 0.3112, 0.3073



4.9801, 0.2788, 0.1309



0.0384, 0.3005, 0.1429

Previews

White Background



This preview shows how the Yxy color 20.2422, 0.3159, 0.5155 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 20.2422, 0.3159, 0.5155 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 20.2422, 0.3159, 0.5155

Background



This preview shows how black text looks on a background with the Yxy color 20.2422, 0.3159, 0.5155.



This preview shows how white text looks on a background with the Yxy color 20.2422, 0.3159, 0.5155.

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

20.2422, 0.3159, 0.5155

Protanopia

20.0320, 0.4146, 0.4557

Deuteranopia

19.9585, 0.4283, 0.4223



Tritanopia

20.1640, 0.2567, 0.3074

Trichromacy



Original Color

20.2422, 0.3159, 0.5155

Protanomaly

19.7063, 0.3741, 0.4796

Deuteranomaly

19.2821, 0.3820, 0.4579

Tritanomaly

19.8382, 0.2789, 0.3799

Monochromacy



Original Color

20.2422, 0.3159, 0.5155

Achromatopsia

15.2926, 0.3127, 0.3290

Achromatomaly

16.5339, 0.3156, 0.3973

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.2422, 0.3159, 0.5155 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(68, 140, 53)` looks like.

```
.text, #text, p{  
    color:rgb(68, 140, 53)  
}
```

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(68, 140, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 140, 53) }
```

Border

The CSS property to change the border of an element to Yxy 20.2422, 0.3159, 0.5155 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(68, 140, 53) }
```

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

```
.border{ border-color:rgb(68, 140, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 140, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 140, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 140, 53);  
box-shadow:4px 4px 4px 4px rgb(68, 140,  
53) }
```


Background

The CSS property to change the background color of an element to Yxy 20.2422, 0.3159, 0.5155 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 140, 53) }
```

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

```
.background{ background-color: rgb(68, 140,  
53) }
```

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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