

Converting Colors

$Y_{xy}(12.3422, 0.2232, 0.2028)$

Have a look what the booklet for
Yxy(12.3422, 0.2232, 0.2028)
contains.

Yxy(12.3422, 0.2232, 0.2028)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(12.3422, 0.2232, 0.2028)

Conversions

Conversions Part 1

Format	Color
Hex	4E5FA0
RGB	78, 95, 160
RGB Percent	31%, 37%, 63%
CMY	0.6939, 0.6275, 0.3725
CMYK	0.51, 0.41, 0.00, 0.37
HSL	228°, 34%, 47%
HSV	228°, 51%, 63%
XYZ	13.5837, 12.3422, 34.9331
YIQ	97.3270, -30.9970, 16.6110

Conversions

Conversions Part 2

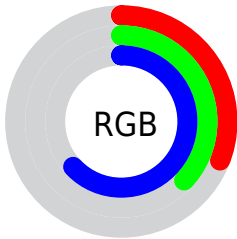
Format	Color
R_{YB}	78, 92, 160
Decimal	5136288
CIE _{Lab}	41.75, 12.47, -37.34
CIE _{LCh}	42, 39.367, 288.469
Yxy	12.3422, 0.2232, 0.2028
Android (android.graphics.Color)	4283326368 (0xFF4E5FA0)
YUV	97.3270, 30.8978, -16.9498
Hunter-Lab	35.1315, 7.5377, -34.3631

Details

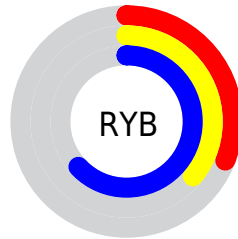
The Yxy color **12.3422, 0.2232, 0.2028** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **27.6981, 0.3979, 0.4286**, and the grayscale version is **11.9694, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.0626, 0.2447, 0.2306**, and **3.4178, 0.1841, 0.1545** is the 20% darker color. If you saturate the color by 10%, you get **9.6429, 0.2048, 0.1736**, and if you desaturate by 10%, it is **15.5797, 0.2422, 0.2315**.

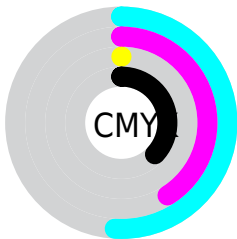
Distribution



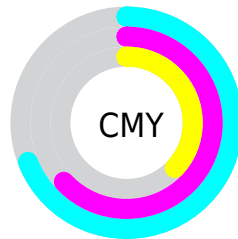
- Red (31%)
- Green (37%)
- Blue (63%)



- Red (31%)
- Yellow (36%)
- Blue (63%)



- Cyan (51%)
- Magenta (41%)
- Yellow (0%)
- Black (37%)



- Cyan (69%)
- Magenta (63%)
- Yellow (37%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.3422, 0.2232, 0.2028 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 12.3422, 0.2232, 0.2028 by changing the saturation by 10% instead.

■ 12.3422, 0.2232,
0.2028

■ 12.3422, 0.2232,
0.2028

■ 206.6578, 0.2761,
0.2741

■ 6.9772, 0.2070,
0.1826

■ 30.1168, 0.2446,
0.2306

■ 3.4478, 0.1845,
0.1555

■ 43.2952, 0.2520,
0.2405

■ 1.3698, 0.1519,
0.1187

■ 59.8469, 0.2579,
0.2486

■ 0.1943, 0.0987,
0.0392

■ 80.1562, 0.2628,
0.2554

■ 0.0000, 0.0000,
0.0000

■ 104.6075, 0.2670,
0.2612

133.5853, 0.2705,

0.2661

167.4739, 0.2735,
0.2703

■ 12.3422, 0.2232,
0.2028

■ 12.3422, 0.2232,
0.2028

■ 9.6429, 0.2048,
0.1736

■ 15.5797, 0.2422,
0.2315

■ 7.4503, 0.1880,
0.1453

■ 19.3818, 0.2609,
0.2587

■ 5.7315, 0.1738,
0.1194

■ 23.7747, 0.2789,
0.2839

■ 4.4488, 0.1630,
0.0975

■ 28.7826, 0.2956,
0.3065

■ 3.6295, 0.1562,
0.0823

■ 34.4283, 0.3109,
0.3267

■ 40.7333, 0.3248,
0.3445

■ 47.7183, 0.3373,
0.3600

■ 55.4028, 0.3485,
0.3735

■ 63.8059, 0.3584,
0.3853

Harmonies

Analogous

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



12.3422, 0.1809, 0.2096



12.3422, 0.2232, 0.2028



12.3422, 0.2942, 0.2213

Triad

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



12.3422, 0.2232, 0.2028



12.3422, 0.4816, 0.3757



12.3422, 0.2366, 0.4125

Complementary

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



12.3422, 0.2232, 0.2028



27.6981, 0.3979, 0.4286

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.



12.3422, 0.3118, 0.4788



12.3422, 0.2232, 0.2028



12.3422, 0.4549, 0.4359

Square

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



12.3422, 0.2232, 0.2028



12.3422, 0.4554, 0.3150



12.3422, 0.3916, 0.4806



12.3422, 0.1862, 0.3190

Rectangle

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



12.3422, 0.2232, 0.2028



12.3422, 0.3525, 0.2457



12.3422, 0.3916, 0.4806



12.3422, 0.2598, 0.4405

Sweetspot

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



12.3426, 0.2232, 0.2028



48.4120, 0.2890, 0.2976



28.7315, 0.2594, 0.3614



10.2245, 0.2857, 0.2931



80.7346, 0.3127, 0.3290



13.9985, 0.3127, 0.3290

Same Dimension

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



12.3426, 0.2232, 0.2028



17.0854, 0.2031, 0.1708



10.7781, 0.2419, 0.1801



6.6463, 0.2988, 0.3107



2.8804, 0.1566, 0.0836



0.1040, 0.1744, 0.1478

Inverse Universe

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



13.7581, 0.4239, 0.3023



20.6172, 0.4634, 0.2985



31.0006, 0.3609, 0.4616



6.6675, 0.3253, 0.3244



5.9130, 0.6012, 0.3086



0.1110, 0.5088, 0.2577

Previews

White Background



This preview shows how the Yxy color 12.3422, 0.2232, 0.2028 looks on a white background.

Color Contrast Check

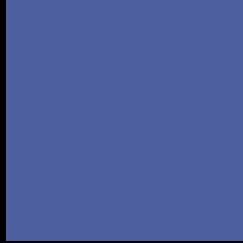
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 12.3422, 0.2232, 0.2028 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

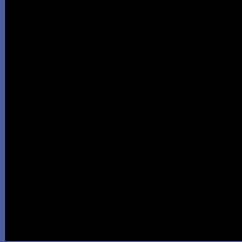
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

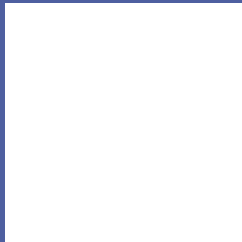
If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 12.3422, 0.2232, 0.2028

Background



This preview shows how black text looks on a background with the Yxy color 12.3422, 0.2232, 0.2028.



This preview shows how white text looks on a background with the Yxy color 12.3422, 0.2232, 0.2028.

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

12.3422, 0.2232, 0.2028

Protanopia

12.3167, 0.2178, 0.2019

Deuteranopia

12.4510, 0.2129, 0.2086



Tritanopia

12.3522, 0.2526, 0.3095

Trichromacy



Original Color

12.3422, 0.2232, 0.2028

Protanomaly

12.3948, 0.2195, 0.2024

Deuteranomaly

12.4675, 0.2168, 0.2078

Tritanomaly

12.1480, 0.2401, 0.2635

Monochromacy



Original Color

12.3422, 0.2232, 0.2028

Achromatopsia

11.9538, 0.3127, 0.3290

Achromatomaly

11.8955, 0.2734, 0.2758

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.3422, 0.2232, 0.2028 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(78, 95, 160)` looks like.

```
.text, #text, p{  
    color:rgb(78, 95, 160)  
}
```

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(78, 95, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(78, 95, 160) }
```

Border

The CSS property to change the border of an element to Yxy 12.3422, 0.2232, 0.2028 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(78, 95, 160) }
```

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

```
.border{ border-color:rgb(78, 95, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(78, 95, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(78, 95, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(78, 95, 160);  
box-shadow:4px 4px 4px 4px rgb(78, 95,  
160) }
```


Background

The CSS property to change the background color of an element to Yxy 12.3422, 0.2232, 0.2028 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(78, 95, 160) }
```

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

```
.background{ background-color: rgb(78, 95,  
160) }
```

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