

Converting Colors

$Y_{xy}(12.2055, 0.2237, 0.1992)$

Have a look what the booklet for
Yxy(12.2055, 0.2237, 0.1992)
contains.

Yxy(12.2841, 0.2239, 0.2001)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	27
<i>CSS Examples</i>	30

Color

Yxy(12.2841, 0.2239, 0.2001)

Conversions

Conversions Part 1

Format	Color
Hex	505EA1
RGB	80, 94, 161
RGB Percent	31%, 37%, 63%
CMY	0.6861, 0.6314, 0.3687
CMYK	0.50, 0.42, 0.00, 0.37
HSL	230°, 34%, 47%
HSV	230°, 50%, 63%
XYZ	13.7452, 12.2841, 35.3605
YIQ	97.4520, -29.8510, 17.8690

Conversions

Conversions Part 2

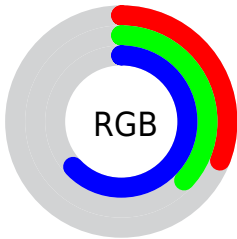
Format	Color
R_{YB}	80, 92, 161
Decimal	5267105
CIE Lab	41.66, 13.89, -38.05
CIE LCh	42, 40.509, 290.059
Yxy	12.2841, 0.2239, 0.2001
Android (android.graphics.Color)	4283457185 (0xFF505EA1)
YUV	97.4520, 31.3292, -15.3054
Hunter-Lab	35.0487, 8.6678, -35.2835

Details

The Yxy color **12.2841, 0.2239, 0.2001** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **29.0320, 0.3943, 0.4307**, and the grayscale version is **11.9995, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.9727, 0.2454, 0.2284**, and **3.3886, 0.1849, 0.1510** is the 20% darker color. If you saturate the color by 10%, you get **9.4971, 0.2050, 0.1699**, and if you desaturate by 10%, it is **15.6488, 0.2433, 0.2299**.

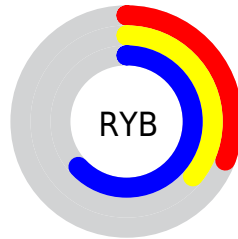
Distribution



Red (31%)

Green (37%)

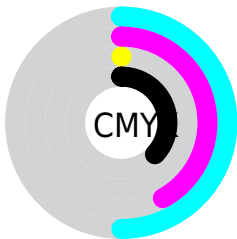
Blue (63%)



Red (31%)

Yellow (36%)

Blue (63%)

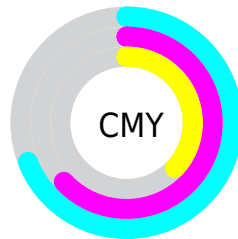


Cyan (50%)

Magenta (42%)

Yellow (0%)

Black (37%)



Cyan (69%)

Magenta (63%)

Yellow (37%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.2841, 0.2239, 0.2001 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 12.2841, 0.2239, 0.2001 by changing the saturation by 10% instead.

■ 12.2841, 0.2239,
0.2001

■ 12.2841, 0.2239,
0.2001

■ 206.2771, 0.2765,
0.2726

■ 6.9375, 0.2078,
0.1797

■ 30.0115, 0.2452,
0.2283

■ 3.4230, 0.1854,
0.1525

■ 43.1610, 0.2525,
0.2384

■ 1.3564, 0.1529,
0.1156

■ 59.6803, 0.2584,
0.2467

■ 0.1842, 0.1013,
0.0363

■ 79.9538, 0.2633,
0.2536

■ 0.0000, 0.0000,
0.0000

■ 104.3658, 0.2674,
0.2594

133.3008, 0.2709,

0.2645

167.1431, 0.2739,
0.2688

■ 12.2841, 0.2239,
0.2001

■ 12.2841, 0.2239,
0.2001

■ 9.4971, 0.2050,
0.1699

■ 15.6488, 0.2433,
0.2299

■ 7.2535, 0.1877,
0.1408

■ 19.6205, 0.2623,
0.2581

■ 5.5168, 0.1730,
0.1145

■ 24.2279, 0.2804,
0.2842

■ 4.2455, 0.1620,
0.0927

■ 29.4974, 0.2971,
0.3076

■ 3.3924, 0.1546,
0.0767

■ 35.4542, 0.3123,
0.3284

■ 42.1218, 0.3260,
0.3467

■ 49.5227, 0.3382,
0.3627

■ 57.6786, 0.3491,
0.3766

■ 66.6101, 0.3587,
0.3886

Harmonies

Analogous

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



12.2841, 0.1792, 0.2054



12.2841, 0.2239, 0.2001



12.2841, 0.2981, 0.2203

Triad

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



12.2841, 0.2239, 0.2001



12.2841, 0.4862, 0.3795



12.2841, 0.2307, 0.4103

Complementary

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



12.2841, 0.2239, 0.2001



29.0320, 0.3943, 0.4307

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.



12.2841, 0.3069, 0.4819



12.2841, 0.2239, 0.2001



12.2841, 0.4557, 0.4412

Square

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



12.2841, 0.2239, 0.2001



12.2841, 0.4626, 0.3174



12.2841, 0.3890, 0.4864



12.2841, 0.1810, 0.3135

Rectangle

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



12.2841, 0.2239, 0.2001



12.2841, 0.3585, 0.2459



12.2841, 0.3890, 0.4864



12.2841, 0.2540, 0.4401

Sweetspot

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



12.2845, 0.2239, 0.2001



47.9687, 0.2889, 0.2962



29.2735, 0.2582, 0.3556



10.1173, 0.2856, 0.2916



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.



12.2845, 0.2239, 0.2001



16.6366, 0.2035, 0.1674



11.3590, 0.2466, 0.1842



7.0483, 0.2987, 0.3098



2.7534, 0.1549, 0.0778



0.1100, 0.1701, 0.1324

Inverse Universe

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



14.1264, 0.4258, 0.3071



20.8805, 0.4663, 0.3040



31.2467, 0.3573, 0.4606



7.1050, 0.3259, 0.3251



6.1221, 0.6106, 0.3137



0.1339, 0.5294, 0.2690

Previews

White Background



This preview shows how the Yxy color 12.2841, 0.2239, 0.2001 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 12.2841, 0.2239, 0.2001 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 12.2841, 0.2239, 0.2001

Background



This preview shows how black text looks on a background with the Yxy color 12.2841, 0.2239, 0.2001.



This preview shows how white text looks on a background with the Yxy color 12.2841, 0.2239, 0.2001.

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

12.2841, 0.2239, 0.2001

Protanopia

12.3497, 0.2158, 0.1990

Deuteranopia

12.4224, 0.2109, 0.2068



Tritanopia

12.2167, 0.2542, 0.3071

Trichromacy



Original Color

12.2841, 0.2239, 0.2001

Protanomaly

12.2489, 0.2184, 0.1991

Deuteranomaly

12.2807, 0.2150, 0.2041

Tritanomaly

12.0281, 0.2416, 0.2615

Monochromacy



Original Color

12.2841, 0.2239, 0.2001

Achromatopsia

11.9538, 0.3127, 0.3290

Achromatomaly

11.9460, 0.2747, 0.2760

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2841, 0.2239, 0.2001 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(80, 94, 161)` looks like.

```
.text, #text, p{  
    color:rgb(80, 94, 161)  
}
```

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(80, 94, 161) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 94, 161) }
```

Border

The CSS property to change the border of an element to Yxy 12.2841, 0.2239, 0.2001 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(80, 94, 161) }
```

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

```
.border{ border-color:rgb(80, 94, 161) }
```

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

Here you see how a box with a 4 pixel rgb(80, 94, 161) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 94, 161); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 94, 161);  
box-shadow:4px 4px 4px 4px rgb(80, 94,  
161) }
```


Background

The CSS property to change the background color of an element to Yxy 12.2841, 0.2239, 0.2001 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 94, 161) }
```

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

```
.background{ background-color: rgb(80, 94,  
161) }
```

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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