

Converting Colors

$Y_{xy}(12.9721, 0.2405, 0.2000)$

Have a look what the booklet for
Yxy(12.9721, 0.2405, 0.2000)
contains.

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Color

Yxy(12.9513, 0.2403, 0.1997)

Conversions

Conversions Part 1

Format	Color
Hex	635CA3
RGB	99, 92, 163
RGB Percent	39%, 36%, 64%
CMY	0.6116, 0.6392, 0.3609
CMYK	0.39, 0.44, 0.00, 0.36
HSL	246°, 28%, 50%
HSV	246°, 44%, 64%
XYZ	15.5844, 12.9513, 36.3181
YIQ	102.1870, -18.6190, 23.5650

Conversions

Conversions Part 2

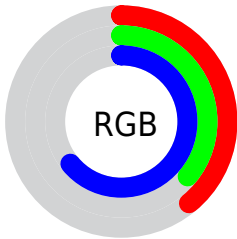
Format	Color
R _Y B	99, 92, 163
Decimal	6511779
CIE Lab	42.69, 20.69, -37.51
CIE LCh	43, 42.842, 298.881
Yxy	12.9513, 0.2403, 0.1997
Android (android.graphics.Color)	4284701859 (0xFF635CA3)
YUV	102.1870, 29.9808, -2.7950
Hunter-Lab	35.9879, 14.3196, -34.6425

Details

The Yxy color **12.9513, 0.2403, 0.1997** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **34.0213, 0.3686, 0.4366**, and the grayscale version is **13.2636, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.0834, 0.2578, 0.2272**, and **3.7060, 0.2073, 0.1531** is the 20% darker color. If you saturate the color by 10%, you get **9.6721, 0.2204, 0.1657**, and if you desaturate by 10%, it is **16.9892, 0.2596, 0.2333**.

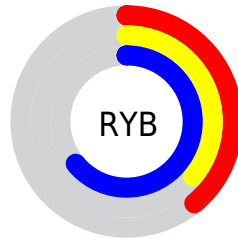
Distribution



Red (39%)

Green (36%)

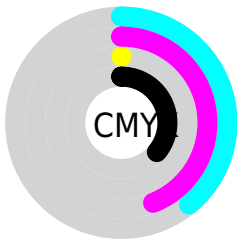
Blue (64%)



Red (39%)

Yellow (36%)

Blue (64%)

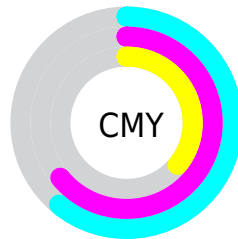


Cyan (39%)

Magenta (44%)

Yellow (0%)

Black (36%)



Cyan (61%)

Magenta (64%)

Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.9513, 0.2403, 0.1997 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 12.9513, 0.2403, 0.1997 by changing the saturation by 10% instead.

■ 12.9513, 0.2403,
0.1997

■ 12.9513, 0.2403,
0.1997

■ 210.6053, 0.2837,
0.2713

■ 7.3950, 0.2267,
0.1799

■ 31.2163, 0.2580,
0.2273

■ 3.7103, 0.2076,
0.1538

■ 44.6937, 0.2641,
0.2372

■ 1.5129, 0.1793,
0.1186

■ 61.5804, 0.2689,
0.2454

■ 0.2978, 0.1382,
0.0522

■ 82.2606, 0.2729,
0.2522

■ 0.0000, 0.0000,
0.0000

■ 107.1189, 0.2763,
0.2581

■ 136.5395, 0.2791,

0.2631

170.9068, 0.2816,
0.2675

■ 12.9513, 0.2403,
0.1997

■ 12.9513, 0.2403,
0.1997

■ 9.6721, 0.2204,
0.1657

■ 16.9892, 0.2596,
0.2333

■ 7.1027, 0.2009,
0.1334

■ 21.8279, 0.2776,
0.2651

■ 5.1906, 0.1832,
0.1051

■ 27.5077, 0.2938,
0.2943

■ 3.8757, 0.1687,
0.0829

■ 34.0661, 0.3081,
0.3205

■ 3.0864, 0.1584,
0.0685

■ 41.5384, 0.3205,
0.3435

■ 2.7551, 0.1537,
0.0621

■ 49.9576, 0.3313,
0.3637

■ 59.3553, 0.3405,
0.3813

■ 69.7616, 0.3484,
0.3965

■ 81.2054, 0.3552,
0.4097

Harmonies

Analogous

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



12.9513, 0.1852, 0.1968



12.9513, 0.2403, 0.1997



12.9513, 0.3244, 0.2274

Triad

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



12.9513, 0.2403, 0.1997



12.9513, 0.4881, 0.3993



12.9513, 0.2090, 0.3836

Complementary

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



12.9513, 0.2403, 0.1997



34.0213, 0.3686, 0.4366

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.



12.9513, 0.2811, 0.4732



12.9513, 0.2403, 0.1997



12.9513, 0.4426, 0.4611

Square

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



12.9513, 0.2403, 0.1997



12.9513, 0.4817, 0.3348



12.9513, 0.3666, 0.4982



12.9513, 0.1683, 0.2865

Rectangle

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



12.9513, 0.2403, 0.1997



12.9513, 0.3880, 0.2574



12.9513, 0.3666, 0.4982



12.9513, 0.2301, 0.4177

Sweetspot

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



12.9518, 0.2403, 0.1997



49.6206, 0.2943, 0.2952



29.0539, 0.2532, 0.3187



10.6279, 0.2910, 0.2892



82.7571, 0.3127, 0.3290



14.7319, 0.3127, 0.3290

Same Dimension

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



12.9518, 0.2403, 0.1997



17.6362, 0.2215, 0.1677



15.3167, 0.2801, 0.2127



6.8920, 0.3001, 0.3059



2.1518, 0.1542, 0.0623



0.0546, 0.1725, 0.0724

Inverse Universe

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



17.8363, 0.3266, 0.2337



27.5727, 0.3302, 0.2153



31.0656, 0.3334, 0.4505



7.1900, 0.3152, 0.3090



7.6887, 0.3470, 0.1685



0.1648, 0.3365, 0.1627

Previews

White Background



This preview shows how the Yxy color 12.9513, 0.2403, 0.1997 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 12.9513, 0.2403, 0.1997 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 12.9513, 0.2403, 0.1997

Background



This preview shows how black text looks on a background with the Yxy color 12.9513, 0.2403, 0.1997.



This preview shows how white text looks on a background with the Yxy color 12.9513, 0.2403, 0.1997.

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

12.9513, 0.2403, 0.1997

Protanopia

12.9395, 0.2129, 0.1950

Deuteranopia

13.0388, 0.2154, 0.2106



Tritanopia

12.8966, 0.2800, 0.3085

Trichromacy



Original Color

12.9513, 0.2403, 0.1997

Protanomaly

12.9051, 0.2213, 0.1963

Deuteranomaly

12.9637, 0.2229, 0.2060

Tritanomaly

12.7865, 0.2631, 0.2614

Monochromacy



Original Color

12.9513, 0.2403, 0.1997

Achromatopsia

13.2868, 0.3127, 0.3290

Achromatomaly

12.9573, 0.2833, 0.2745

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.9513, 0.2403, 0.1997 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(99, 92, 163)` looks like.

```
.text, #text, p{  
    color:rgb(99, 92, 163)  
}
```

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(99, 92, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 92, 163) }
```

Border

The CSS property to change the border of an element to Yxy 12.9513, 0.2403, 0.1997 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(99, 92, 163) }
```

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

```
.border{ border-color:rgb(99, 92, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 92, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 92, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 92, 163);  
box-shadow:4px 4px 4px 4px rgb(99, 92,  
163) }
```


Background

The CSS property to change the background color of an element to Yxy 12.9513, 0.2403, 0.1997 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 92, 163) }
```

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

```
.background{ background-color: rgb(99, 92,  
163) }
```

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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