

Converting Colors

$Y_{xy}(21.2564, 0.6400, 0.3301)$

Have a look what the booklet for
Yxy(21.2564, 0.6400, 0.3301)
contains.

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Color

Yxy(21.2817, 0.6399, 0.3301)

Conversions

Conversions Part 1

Format	Color
Hex	FF0100
RGB	255, 1, 0
RGB Percent	100%, 0%, 0%
CMY	0.0000, 0.9963, 0.9999
CMYK	0.00, 1.00, 1.00, 0.00
HSL	0°, 100%, 50%
HSV	0°, 100%, 100%
XYZ	41.2546, 21.2817, 1.9341
YIQ	76.8320, 151.7050, 53.5370

Conversions

Conversions Part 2

Format	Color
RYB	255, 1, 0
Decimal	16711936
CIELab	53.26, 80.05, 67.22
CIElCh	53, 104.534, 40.022
Yxy	21.2817, 0.6399, 0.3301
Android (android.graphics.Color)	4294902016 (0xFFFF0100)
YUV	76.8320, -37.8782, 156.2533
Hunter-Lab	46.1321, 78.8964, 29.8067

Details

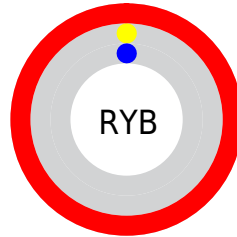
The Yxy color **21.2817, 0.6399, 0.3301** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **78.1515, 0.2243, 0.3276**, and the grayscale version is **7.4338, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.1252, 0.5516, 0.3589**, and **10.5648, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.2801, 0.6399, 0.3301**, and if you desaturate by 10%, it is **22.0872, 0.6248, 0.3302**.

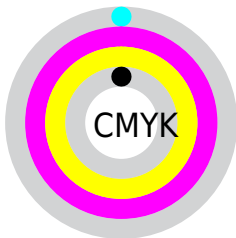
Distribution



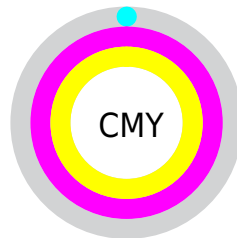
- Red (100%)
- Green (0%)
- Blue (0%)



- Red (100%)
- Yellow (0%)
- Blue (0%)



- Cyan (0%)
- Magenta (100%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (100%)
- Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 21.2817, 0.6399, 0.3301 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 21.2817, 0.6399, 0.3301 by changing the saturation by 10% instead.


 21.2817, 0.6399,
0.3301


 21.2817, 0.6399,
0.3301


 258.7718, 0.4739,
0.3581


 13.3301, 0.6746,
0.3133


 45.5559, 0.5838,
0.3484

 7.6562, 0.7128,
0.2872

 62.6472, 0.5611,
0.3529


 3.8758, 0.7524,
0.2476


 83.5540, 0.5414,
0.3556

 1.6043, 0.8059,
0.1941

 108.6604, 0.5242,
0.3572

 0.3605, 0.9014,
0.0986

 138.3511, 0.5091,
0.3581

 0.0000, 1.0000,
0.0000


 173.0102, 0.4959,

 0.0000, 0.0000,


0.3584

0.0000

 213.0224, 0.4843,
0.3584


 21.2817, 0.6399,
0.3301


 21.2817, 0.6399,
0.3301


 21.2801, 0.6399,
0.3301

 22.0872, 0.6248,
0.3302

 23.9343, 0.5941,
0.3302

 27.1211, 0.5507,
0.3302

 31.8371, 0.5023,
0.3301

 38.2412, 0.4557,
0.3299

■ 46.4729, 0.4146,
0.3297

■ 56.6568, 0.3804,
0.3295

■ 68.9067, 0.3526,
0.3293

■ 83.3278, 0.3304,
0.3291

Harmonies

Analogous

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



21.2817, 0.5816, 0.2516



21.2817, 0.6399, 0.3301



21.2817, 0.5716, 0.4284

Triad

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



21.2817, 0.6399, 0.3301



21.2817, 0.1727, 0.6017



21.2817, 0.1238, 0.1091

Complementary

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



21.2817, 0.6399, 0.3301



78.1515, 0.2243, 0.3276

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.



21.2817, 0.0787, 0.1213



21.2817, 0.6399, 0.3301



21.2817, 0.0911, 0.3409

Square

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



21.2817, 0.6399, 0.3301



21.2817, 0.2986, 0.6753



21.2817, 0.0674, 0.1808



21.2817, 0.2234, 0.1278

Rectangle

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



21.2817, 0.6399, 0.3301



21.2817, 0.4872, 0.5128



21.2817, 0.0674, 0.1808



21.2817, 0.1041, 0.1095

Sweetspot

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



21.2807, 0.6399, 0.3301



56.6456, 0.3804, 0.3295



28.4806, 0.3209, 0.1542



11.1531, 0.3940, 0.3296



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

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



21.2807, 0.6399, 0.3301



21.2801, 0.6399, 0.3301



36.5716, 0.5436, 0.4066



17.9976, 0.3295, 0.3291



11.1239, 0.6398, 0.3302



1.0866, 0.6392, 0.3307

Inverse Universe

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



78.1515, 0.2243, 0.3276



78.1512, 0.2243, 0.3276



22.5317, 0.1763, 0.1545



20.4695, 0.2980, 0.3289



40.8410, 0.2244, 0.3276



3.9801, 0.2244, 0.3278

Previews

White Background



This preview shows how the Yxy color 21.2817, 0.6399, 0.3301 looks on a white background.

Color Contrast Check

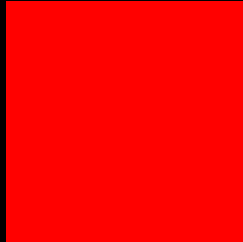
Large Text (above 18pt) WCAG AA ✓ Pass

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 21.2817, 0.6399, 0.3301 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 21.2817, 0.6399, 0.3301

Background



This preview shows how black text looks on a background with the Yxy color 21.2817, 0.6399, 0.3301.



This preview shows how white text looks on a background with the Yxy color 21.2817, 0.6399, 0.3301.

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

21.2817, 0.6399, 0.3301

Protanopia

21.7396, 0.4270, 0.4729

Deuteranopia

21.6004, 0.4703, 0.4648



Tritanopia

21.5359, 0.6343, 0.3345

Trichromacy



Original Color

21.2817, 0.6399, 0.3301



Protanomaly

16.2791, 0.5478, 0.3891



Deuteranomaly

17.1845, 0.5709, 0.3849



Tritanomaly

21.4414, 0.6368, 0.3326

Monochromacy



Original Color

21.2817, 0.6399, 0.3301



Achromatopsia

7.4214, 0.3127, 0.3290



Achromatomaly

8.1692, 0.5168, 0.3296

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.2817, 0.6399, 0.3301 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(255, 1, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 1, 0)  
}
```

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(255, 1, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 1, 0) }
```

Border

The CSS property to change the border of an element to Yxy 21.2817, 0.6399, 0.3301 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(255, 1, 0) }
```

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

```
.border{ border-color:rgb(255, 1, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 1, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 1, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(255, 1, 0); box-shadow:4px  
4px 4px 4px rgb(255, 1, 0) }
```


Background

The CSS property to change the background color of an element to Yxy 21.2817, 0.6399, 0.3301 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 1, 0) }
```

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

```
.background{ background-color: rgb(255, 1,  
0) }
```

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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