

Converting Colors

$Y_{xy}(21.2601, 0.6401, 0.3300)$

Have a look what the booklet for
Yxy(21.2601, 0.6401, 0.3300)
contains.

Yxy(21.2600, 0.6401, 0.3300)	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(21.2600, 0.6401, 0.3300)

Conversions

Conversions Part 1

Format	Color
Hex	FF0000
RGB	255, 0, 0
RGB Percent	100%, 0%, 0%
CMY	0.0000, 0.9995, 1.0000
CMYK	0.00, 1.00, 1.00, 0.00
HSL	0°, 100%, 50%
HSV	0°, 100%, 100%
XYZ	41.2380, 21.2600, 1.9263
YIQ	76.2450, 151.9800, 54.0600

Conversions

Conversions Part 2

Format	Color
RYB	255, 0, 0
Decimal	16711680
CIELab	53.23, 80.10, 67.25
CIELCh	53, 104.592, 40.016
Yxy	21.2600, 0.6401, 0.3300
Android (android.graphics.Color)	4294901760 (0xFFFF0000)
YUV	76.2450, -37.5888, 156.7681
Hunter-Lab	46.1086, 78.9544, 29.7990

Details

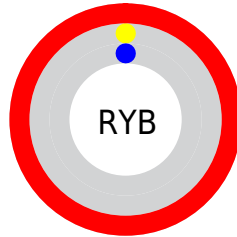
The Yxy color **21.2600, 0.6401, 0.3300** is a dark color, and the websafe version is hex **FF0000**, and the color name is **red**. The color can be described as dark saturated red. A complement of this color would be **78.6517, 0.2246, 0.3286**, and the grayscale version is **7.3386, 0.3127, 0.3290**.

A 20% lighter version of the original color is **29.9415, 0.5525, 0.3580**, and **10.5648, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **21.2617, 0.6400, 0.3300**, and if you desaturate by 10%, it is **22.0531, 0.6251, 0.3300**.

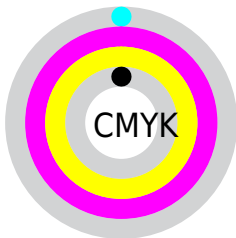
Distribution



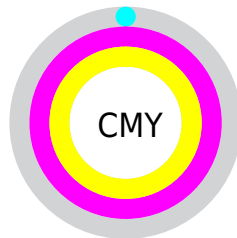
- Red (100%)
- Green (0%)
- Blue (0%)



- 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 21.2600, 0.6401, 0.3300 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 21.2600, 0.6401, 0.3300 by changing the saturation by 10% instead.


 21.2600, 0.6401,
0.3300


 21.2600, 0.6401,
0.3300


 258.6570, 0.4740,
0.3581


 13.3142, 0.6749,
0.3131

 45.5198, 0.5840,
0.3483

 7.6453, 0.7130,
0.2870


 62.6027, 0.5613,
0.3528

 3.8688, 0.7526,
0.2474

 83.4999, 0.5415,
0.3556

 1.6004, 0.8062,
0.1938

 108.5961, 0.5243,
0.3572

 0.3579, 0.9020,
0.0980

 138.2755, 0.5093,
0.3581


 0.0000, 1.0000,
0.0000


 172.9225, 0.4961,


 0.0000, 0.0000,

0.3584


0.0000

 212.9215, 0.4844,
0.3584

 21.2600, 0.6401,
0.3300

 21.2600, 0.6401,
0.3300


 21.2617, 0.6400,
0.3300

 22.0531, 0.6251,
0.3300

 23.8746, 0.5945,
0.3299

 27.0382, 0.5511,
0.3298

 31.7358, 0.5027,
0.3296

 38.1286, 0.4560,
0.3295

■ 46.3571, 0.4148,
0.3294

■ 56.5472, 0.3805,
0.3292

■ 68.8141, 0.3527,
0.3291

■ 83.2635, 0.3304,
0.3291

Harmonies

Analogous

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



21.2600, 0.5818, 0.2515



21.2600, 0.6401, 0.3300



21.2600, 0.5717, 0.4283

Triad

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



21.2600, 0.6401, 0.3300



21.2600, 0.1726, 0.6020



21.2600, 0.1237, 0.1090

Complementary

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



21.2600, 0.6401, 0.3300



78.6517, 0.2246, 0.3286

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.



21.2600, 0.0786, 0.1212



21.2600, 0.6401, 0.3300



21.2600, 0.0910, 0.3409

Square

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



21.2600, 0.6401, 0.3300



21.2600, 0.2985, 0.6756



21.2600, 0.0673, 0.1807



21.2600, 0.2234, 0.1277

Rectangle

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



21.2600, 0.6401, 0.3300



21.2600, 0.4872, 0.5128



21.2600, 0.0673, 0.1807



21.2600, 0.1040, 0.1094

Sweetspot

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



21.2617, 0.6400, 0.3300



56.5504, 0.3805, 0.3292



28.4784, 0.3209, 0.1542



11.1316, 0.3941, 0.3293



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.



21.2617, 0.6400, 0.3300



21.2629, 0.6400, 0.3300



36.5662, 0.5436, 0.4066



17.9886, 0.3295, 0.3291



11.1109, 0.6400, 0.3300



1.0823, 0.6400, 0.3301

Inverse Universe

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



78.6517, 0.2246, 0.3286



78.6561, 0.2246, 0.3286



22.5270, 0.1763, 0.1545



20.4798, 0.2980, 0.3289



41.1003, 0.2246, 0.3286



4.0023, 0.2246, 0.3286

Previews

White Background



This preview shows how the Yxy color 21.2600, 0.6401, 0.3300 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



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 21.2600, 0.6401, 0.3300

Background



This preview shows how black text looks on a background with the Yxy color 21.2600, 0.6401, 0.3300.



This preview shows how white text looks on a background with the Yxy color 21.2600, 0.6401, 0.3300.

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

21.2600, 0.6401, 0.3300

Protanopia

21.7396, 0.4270, 0.4729

Deuteranopia

21.6004, 0.4703, 0.4648



Tritanopia

21.5359, 0.6343, 0.3345

Trichromacy



Original Color

21.2600, 0.6401, 0.3300



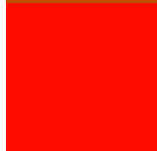
Protanomaly

16.2791, 0.5478, 0.3891



Deuteranomaly

17.1845, 0.5709, 0.3849



Tritanomaly

21.4125, 0.6371, 0.3324

Monochromacy



Original Color

21.2600, 0.6401, 0.3300



Achromatopsia

7.2272, 0.3127, 0.3290



Achromatomaly

7.9900, 0.5188, 0.3296

CSS Examples

Text

The CSS property to change the color of the text to Yxy 21.2600, 0.6401, 0.3300 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, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 0, 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, 0, 0) colored shadow looks like.

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

Border

The CSS property to change the border of an element to Yxy 21.2600, 0.6401, 0.3300 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, 0, 0) }
```

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

```
.border{ border-color:rgb(255, 0, 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, 0, 0) colored shadow looks like.

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


Background

The CSS property to change the background color of an element to Yxy 21.2600, 0.6401, 0.3300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

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

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

```
.background{ background-color: rgb(255, 0,  
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](#).

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