

Converting Colors

$Y_{xy}(22.2863, 0.6313, 0.3370)$

Have a look what the booklet for
Yxy(22.2863, 0.6313, 0.3370)
contains.

Yxy(22.2930, 0.6312, 0.3370)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	29

Color

Yxy(22.2930, 0.6312, 0.3370)

Conversions

Conversions Part 1

Format	Color
Hex	FF2000
RGB	255, 32, 0
RGB Percent	100%, 13%, 0%
CMY	0.0000, 0.8743, 0.9998
CMYK	0.00, 0.87, 1.00, 0.00
HSL	8°, 100%, 50%
HSV	8°, 100%, 100%
XYZ	41.7547, 22.2930, 2.1036
YIQ	95.0290, 143.1800, 37.3240

Conversions

Conversions Part 2

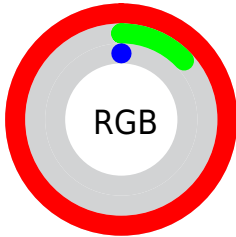
Format	Color
RYB	255, 37, 0
Decimal	16719872
CIELab	54.34, 76.92, 67.60
CIElCh	54, 102.406, 41.312
Yxy	22.2930, 0.6312, 0.3370
Android (android.graphics.Color)	4294909952 (0xFFFF2000)
YUV	95.0290, -46.8493, 140.2946
Hunter-Lab	47.2155, 75.2284, 30.4092

Details

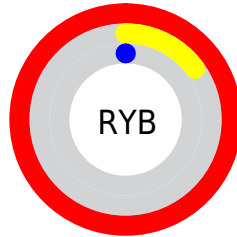
The Yxy color **22.2930, 0.6312, 0.3370** is a dark color, and the websafe version is hex **FF0000**. The color can be described as dark saturated red. A complement of this color would be **59.9887, 0.2134, 0.2880**, and the grayscale version is **11.5481, 0.3127, 0.3290**.

A 20% lighter version of the original color is **31.8943, 0.5423, 0.3664**, and **10.5648, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **22.2920, 0.6312, 0.3370**, and if you desaturate by 10%, it is **24.0021, 0.6100, 0.3425**.

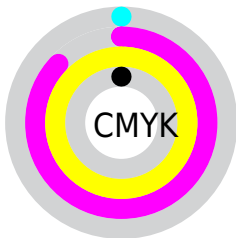
Distribution



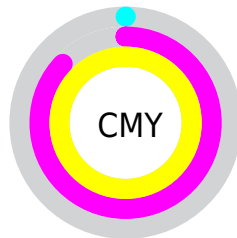
- Red (100%)
- Green (13%)
- Blue (0%)



- Red (100%)
- Yellow (15%)
- Blue (0%)



- Cyan (0%)
- Magenta (87%)
- Yellow (100%)
- Black (0%)




- Cyan (0%)
- Magenta (87%)
- Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 22.2930, 0.6312, 0.3370 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 22.2930, 0.6312, 0.3370 by changing the saturation by 10% instead.


 22.2930, 0.6312,
0.3370


 22.2930, 0.6312,
0.3370


 264.0726, 0.4703,
0.3605


 14.0724, 0.6645,
0.3214


 47.2298, 0.5769,
0.3534


 8.1710, 0.7026,
0.2974


 64.7147, 0.5548,
0.3572


 4.2046, 0.7404,
0.2596

 86.0565, 0.5357,
0.3595

 1.7886, 0.7920,
0.2080

 111.6396, 0.5190,
0.3607

 0.4801, 0.8759,
0.1241

 141.8484, 0.5045,
0.3612


 0.0000, 1.0000,
0.0000


 177.0672, 0.4916,


 0.0000, 0.0000,


0.3612


0.0000

 217.6805, 0.4803,
0.3609


 22.2930, 0.6312,
0.3370


 22.2930, 0.6312,
0.3370


 22.2920, 0.6312,
0.3370

 24.0021, 0.6100,
0.3425

 26.7567, 0.5761,
0.3467

 30.7016, 0.5337,
0.3485

 35.9531, 0.4888,
0.3480

 42.6135, 0.4464,
0.3459

■ 50.7748, 0.4091,
0.3428

■ 60.5210, 0.3775,
0.3392

■ 71.9300, 0.3514,
0.3357

■ 85.0746, 0.3300,
0.3322

Harmonies

Analogous

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



22.2930, 0.5787, 0.2581



22.2930, 0.6312, 0.3370



22.2930, 0.5640, 0.4360

Triad

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



22.2930, 0.6312, 0.3370



22.2930, 0.1736, 0.5809



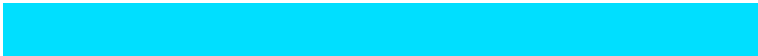
22.2930, 0.1309, 0.1136

Complementary

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



22.2930, 0.6312, 0.3370



59.9887, 0.2134, 0.2880

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.



22.2930, 0.0840, 0.1246



22.2930, 0.6312, 0.3370



22.2930, 0.0945, 0.3324

Square

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



22.2930, 0.6312, 0.3370



22.2930, 0.2974, 0.6670



22.2930, 0.0717, 0.1815



22.2930, 0.2321, 0.1335

Rectangle

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



22.2930, 0.6312, 0.3370



22.2930, 0.4815, 0.5185



22.2930, 0.0717, 0.1815



22.2930, 0.1105, 0.1136

Sweetspot

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



22.2944, 0.6312, 0.3370



60.5051, 0.3775, 0.3392



26.7093, 0.3534, 0.1720



12.0288, 0.3902, 0.3408



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.



22.2944, 0.6312, 0.3370



22.2936, 0.6312, 0.3370



45.4618, 0.5091, 0.4339



18.3543, 0.3291, 0.3321



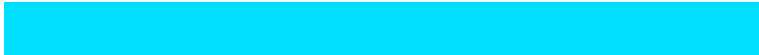
11.7624, 0.6294, 0.3384



1.2554, 0.6125, 0.3519

Inverse Universe

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



59.9887, 0.2134, 0.2880



59.9895, 0.2134, 0.2880



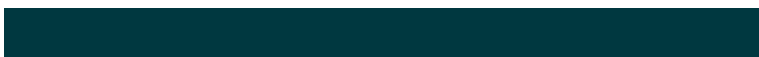
15.9135, 0.1661, 0.1181



20.0693, 0.2980, 0.3259



31.4987, 0.2136, 0.2888



3.1712, 0.2149, 0.2938

Previews

White Background



This preview shows how the Yxy color 22.2930, 0.6312, 0.3370 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 22.2930, 0.6312, 0.3370 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 22.2930, 0.6312, 0.3370

Background



This preview shows how black text looks on a background with the Yxy color 22.2930, 0.6312, 0.3370.



This preview shows how white text looks on a background with the Yxy color 22.2930, 0.6312, 0.3370.

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

22.2930, 0.6312, 0.3370

Protanopia

22.5399, 0.4289, 0.4736

Tritanopia

22.3102, 0.6233, 0.3318

Trichromacy



Original Color

22.2930, 0.6312, 0.3370

Protanomaly

18.6740, 0.5305, 0.4049

Tritanomaly

22.2774, 0.6272, 0.3341

Monochromacy



Original Color

22.2930, 0.6312, 0.3370

Achromatopsia

11.4435, 0.3127, 0.3290

Achromatomaly

11.7333, 0.4830, 0.3483

CSS Examples

Text

The CSS property to change the color of the text to Yxy 22.2930, 0.6312, 0.3370 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, 32, 0)` looks like.

```
.text, #text, p{  
  color:rgb(255, 32, 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, 32, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 32, 0) }
```

Border

The CSS property to change the border of an element to Yxy 22.2930, 0.6312, 0.3370 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, 32, 0) }
```

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

```
.border{ border-color:rgb(255, 32, 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, 32, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 32, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 32, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 32, 0)  
}
```

Background

The CSS property to change the background color of an element to Yxy 22.2930, 0.6312, 0.3370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 32, 0) }
```

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

```
.background{ background-color: rgb(255, 32,  
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