

Converting Colors

$Y_{xy}(22.7762, 0.6270, 0.3400)$

Have a look what the booklet for
Yxy(22.7762, 0.6270, 0.3400)
contains.

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Color

Yxy(22.7798, 0.6270, 0.3400)

Conversions

Conversions Part 1

Format	Color
Hex	FF2801
RGB	255, 40, 1
RGB Percent	100%, 16%, 0%
CMY	0.0000, 0.8432, 0.9961
CMYK	0.00, 0.84, 1.00, 0.00
HSL	9°, 100%, 50%
HSV	9°, 100%, 100%
XYZ	42.0086, 22.7798, 2.2110
YIQ	99.8390, 140.6590, 33.4510

Conversions

Conversions Part 2

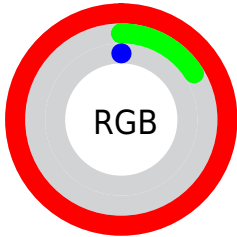
Format	Color
RYB	255, 47, 1
Decimal	16721921
CIELab	54.84, 75.50, 67.58
CIELCh	55, 101.328, 41.833
Yxy	22.7798, 0.6270, 0.3400
Android (android.graphics.Color)	4294912001 (0xFFFF2801)
YUV	99.8390, -48.7276, 136.0762
Hunter-Lab	47.7282, 73.5849, 30.6632

Details

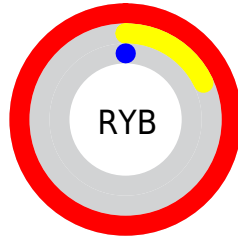
The Yxy color **22.7798, 0.6270, 0.3400** is a dark color, and the websafe version is hex **FF3300**. The color can be described as dark saturated red. A complement of this color would be **56.3395, 0.2108, 0.2786**, and the grayscale version is **12.7963, 0.3127, 0.3290**.

A 20% lighter version of the original color is **32.5342, 0.5387, 0.3686**, and **10.6914, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **22.7208, 0.6277, 0.3398**, and if you desaturate by 10%, it is **24.7348, 0.6043, 0.3466**.

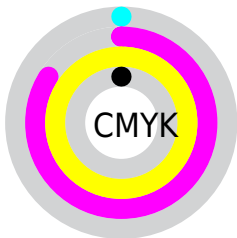
Distribution



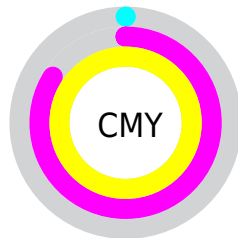
- Red (100%)
- Green (16%)
- Blue (0%)



- Red (100%)
- Yellow (18%)
- Blue (0%)



- Cyan (0%)
- Magenta (84%)
- Yellow (100%)
- Black (0%)



- Cyan (0%)
- Magenta (84%)
- Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 22.7798, 0.6270, 0.3400 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 22.7798, 0.6270, 0.3400 by changing the saturation by 10% instead.


 22.7798, 0.6270,
0.3400


 22.7798, 0.6270,
0.3400


266.5920, 0.4684,
0.3614


 14.4310, 0.6597,
0.3249


 48.0315, 0.5734,
0.3555

 8.4210, 0.6979,
0.3021


 65.7032, 0.5517,
0.3590

 4.3655, 0.7349,
0.2651

 87.2513, 0.5328,
0.3610

 1.8801, 0.7856,
0.2144

 113.0602, 0.5164,
0.3620

 0.5363, 0.8650,
0.1350

 143.5144, 0.5021,
0.3624


 0.0000, 1.0000,
0.0000

 178.9981, 0.4894,

 0.0000, 0.0000,

0.3623


0.0000

 219.8959, 0.4783,
0.3619


 22.7798, 0.6270,
0.3400


 22.7798, 0.6270,
0.3400


 22.7208, 0.6277,
0.3398

 24.7348, 0.6043,
0.3466

 27.7172, 0.5698,
0.3513

 31.8519, 0.5278,
0.3530

 37.2426, 0.4841,
0.3522

 43.9813, 0.4429,
0.3494

■ 52.1513, 0.4066,
0.3456

■ 61.8288, 0.3758,
0.3413

■ 73.0850, 0.3502,
0.3370

■ 85.9862, 0.3293,
0.3328

Harmonies

Analogous

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



22.7798, 0.5767, 0.2609



22.7798, 0.6270, 0.3400



22.7798, 0.5608, 0.4392

Triad

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



22.7798, 0.6270, 0.3400



22.7798, 0.1745, 0.5718



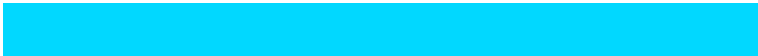
22.7798, 0.1341, 0.1158

Complementary

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



22.7798, 0.6270, 0.3400



56.3395, 0.2108, 0.2786

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.



22.7798, 0.0866, 0.1264



22.7798, 0.6270, 0.3400



22.7798, 0.0963, 0.3293

Square

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



22.7798, 0.6270, 0.3400



22.7798, 0.2973, 0.6625



22.7798, 0.0739, 0.1823



22.7798, 0.2358, 0.1362

Rectangle

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



22.7798, 0.6270, 0.3400



22.7798, 0.4793, 0.5207



22.7798, 0.0739, 0.1823



22.7798, 0.1135, 0.1157

Sweetspot

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



22.7783, 0.6270, 0.3400



61.4273, 0.3769, 0.3415



26.2857, 0.3636, 0.1778



12.2397, 0.3893, 0.3433



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.



22.7783, 0.6270, 0.3400



22.7208, 0.6277, 0.3398



48.5687, 0.4992, 0.4416



18.4371, 0.3291, 0.3327



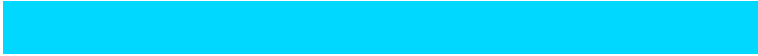
12.0053, 0.6256, 0.3414



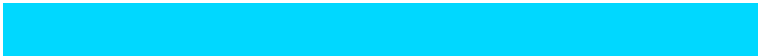
1.2941, 0.6069, 0.3563

Inverse Universe

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



56.3395, 0.2108, 0.2786



56.2560, 0.2107, 0.2784



14.5198, 0.1638, 0.1096



19.9783, 0.2980, 0.3253



29.5742, 0.2109, 0.2793



3.0022, 0.2127, 0.2856

Previews

White Background



This preview shows how the Yxy color 22.7798, 0.6270, 0.3400 looks on a white background.

Color Contrast Check

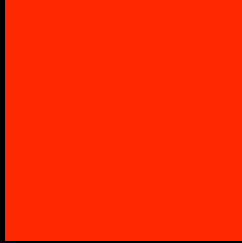
Large Text (above 18pt) WCAG AA ✓ Pass

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 22.7798, 0.6270, 0.3400 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 22.7798, 0.6270, 0.3400

Background



This preview shows how black text looks on a background with the Yxy color 22.7798, 0.6270, 0.3400.



This preview shows how white text looks on a background with the Yxy color 22.7798, 0.6270, 0.3400.

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

22.7798, 0.6270, 0.3400

Protanopia

22.8974, 0.4294, 0.4747

Deuteranopia

22.7742, 0.4705, 0.4646



Tritanopia

22.8324, 0.6137, 0.3315

Trichromacy



Original Color

22.7798, 0.6270, 0.3400

Protanomaly

19.5390, 0.5255, 0.4093

Deuteranomaly

20.0112, 0.5488, 0.4024

Tritanomaly

22.7729, 0.6205, 0.3355

Monochromacy



Original Color

22.7798, 0.6270, 0.3400

Achromatopsia

12.7438, 0.3127, 0.3290

Achromatomaly

12.8869, 0.4734, 0.3514

CSS Examples

Text

The CSS property to change the color of the text to Yxy 22.7798, 0.6270, 0.3400 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, 40, 1)` looks like.

```
.text, #text, p{  
    color:rgb(255, 40, 1)  
}
```

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, 40, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 40, 1) }
```

Border

The CSS property to change the border of an element to Yxy 22.7798, 0.6270, 0.3400 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, 40, 1) }
```

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

```
.border{ border-color:rgb(255, 40, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 40, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 40, 1); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 40, 1);  
box-shadow:4px 4px 4px 4px rgb(255, 40, 1)  
}
```


Background

The CSS property to change the background color of an element to Yxy 22.7798, 0.6270, 0.3400 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 40, 1) }
```

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

```
.background{ background-color: rgb(255, 40,  
1) }
```

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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