

Converting Colors

$Y_{xy}(20.7497, 0.6327, 0.3310)$

Have a look what the booklet for
Yxy(20.7497, 0.6327, 0.3310)
contains.

Yxy(20.7832, 0.6327, 0.3312)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(20.7832, 0.6327, 0.3312)

Conversions

Conversions Part 1

Format	Color
Hex	FA120C
RGB	250, 18, 12
RGB Percent	98%, 7%, 5%
CMY	0.0197, 0.9289, 0.9531
CMYK	0.00, 0.93, 0.95, 0.02
HSL	2°, 96%, 51%
HSV	2°, 95%, 98%
XYZ	39.7027, 20.7832, 2.2653
YIQ	86.6840, 140.1980, 47.3180

Conversions

Conversions Part 2

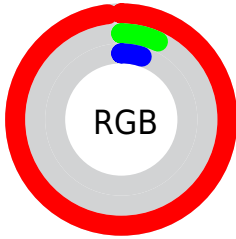
Format	Color
R_{YB}	250, 18, 12
Decimal	16388620
CIE Lab	52.71, 77.59, 63.46
CIE LCh	53, 100.240, 39.278
Yxy	20.7832, 0.6327, 0.3312
Android (android.graphics.Color)	4294578700 (0xFFFA120C)
YUV	86.6840, -36.8192, 143.2281
Hunter-Lab	45.5886, 75.6740, 28.9659

Details

The Yxy color **20.7832, 0.6327, 0.3312** 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 **71.5595, 0.2230, 0.3211**, and the grayscale version is **9.5335, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.5653, 0.5446, 0.3568**, and **10.0673, 0.6401, 0.3300** is the 20% darker color. If you saturate the color by 10%, you get **20.4620, 0.6388, 0.3310**, and if you desaturate by 10%, it is **22.1450, 0.6094, 0.3324**.

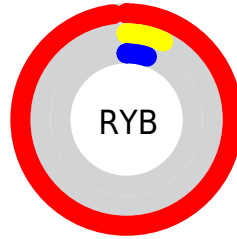
Distribution



Red (98%)

Green (7%)

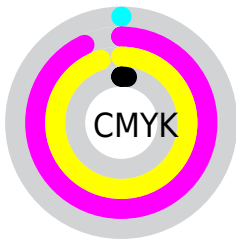
Blue (5%)



Red (98%)

Yellow (7%)

Blue (5%)

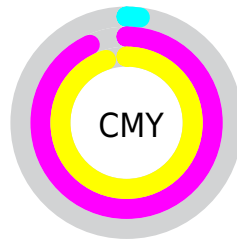


Cyan (0%)

Magenta (93%)

Yellow (95%)

Black (2%)



Cyan (2%)


Magenta (93%)


Yellow (95%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.7832, 0.6327, 0.3312 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 20.7832, 0.6327, 0.3312 by changing the saturation by 10% instead.


 20.7832, 0.6327,
0.3312


 20.7832, 0.6327,
0.3312


256.1241, 0.4677,
0.3565


 12.9656, 0.6678,
0.3149


 44.7264, 0.5760,
0.3481


 7.4049, 0.7094,
0.2906


 61.6209, 0.5533,
0.3522


 3.7166, 0.7493,
0.2507

 82.3098, 0.5337,
0.3546

 1.5163, 0.8037,
0.1963

 107.1774, 0.5168,
0.3560

 0.3002, 0.9094,
0.0906

 136.6083, 0.5020,
0.3566

 0.0000, 1.0000,
0.0000


 170.9868, 0.4891,


 0.0000, 0.0000,


0.3568


0.0000


 210.6972, 0.4777,
0.3568


 20.7832, 0.6327,
0.3312


 20.7832, 0.6327,
0.3312

 20.4620, 0.6388,
0.3310

 22.1450, 0.6094,
0.3324

 24.6632, 0.5712,
0.3332

 28.5222, 0.5247,
0.3334

 33.8734, 0.4772,
0.3331

 40.8476, 0.4338,
0.3325

■ 49.5617, 0.3966,
0.3317

■ 60.1215, 0.3659,
0.3309

■ 72.6247, 0.3412,
0.3301

■ 87.1617, 0.3214,
0.3294

Harmonies

Analogous

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



20.7832, 0.5701, 0.2527



20.7832, 0.6327, 0.3312



20.7832, 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.



20.7832, 0.6327, 0.3312



20.7832, 0.1808, 0.5960



20.7832, 0.1261, 0.1131

Complementary

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



20.7832, 0.6327, 0.3312



71.5595, 0.2230, 0.3211

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.



20.7832, 0.0820, 0.1265



20.7832, 0.6327, 0.3312



20.7832, 0.0975, 0.3474

Square

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



20.7832, 0.6327, 0.3312



20.7832, 0.3062, 0.6641



20.7832, 0.0717, 0.1878



20.7832, 0.2228, 0.1309

Rectangle

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



20.7832, 0.6327, 0.3312



20.7832, 0.4905, 0.5095



20.7832, 0.0717, 0.1878



20.7832, 0.1068, 0.1138

Sweetspot

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



20.7845, 0.6327, 0.3312



58.4534, 0.3769, 0.3312



27.2376, 0.3249, 0.1575



11.5191, 0.3902, 0.3316



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.



20.7845, 0.6327, 0.3312



21.4038, 0.6388, 0.3310



37.6575, 0.5297, 0.4144



17.2974, 0.3294, 0.3297



10.8869, 0.6382, 0.3314



1.0330, 0.6337, 0.3350

Inverse Universe

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



71.5595, 0.2230, 0.3211



74.5854, 0.2224, 0.3207



22.1582, 0.1778, 0.1577



19.5266, 0.2980, 0.3283



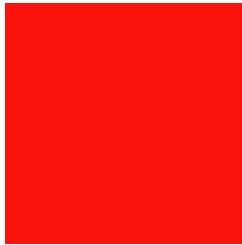
37.8579, 0.2225, 0.3208



3.5301, 0.2227, 0.3218

Previews

White Background



This preview shows how the Yxy color 20.7832, 0.6327, 0.3312 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 20.7832, 0.6327, 0.3312 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 20.7832, 0.6327, 0.3312

Background



This preview shows how black text looks on a background with the Yxy color 20.7832, 0.6327, 0.3312.



This preview shows how white text looks on a background with the Yxy color 20.7832, 0.6327, 0.3312.

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

20.7832, 0.6327, 0.3312

Protanopia

21.0569, 0.4251, 0.4695

Deuteranopia

20.9065, 0.4710, 0.4642



Tritanopia

20.7136, 0.6348, 0.3341

Trichromacy



Original Color

20.7832, 0.6327, 0.3312

Protanomaly

16.7193, 0.5338, 0.3938

Deuteranomaly

17.5327, 0.5602, 0.3912

Tritanomaly

20.6848, 0.6340, 0.3332

Monochromacy



Original Color

20.7832, 0.6327, 0.3312

Achromatopsia

9.5307, 0.3127, 0.3290

Achromatomaly

9.8825, 0.4846, 0.3328

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.7832, 0.6327, 0.3312 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(250, 18, 12)` looks like.

```
.text, #text, p{  
  color:rgb(250, 18, 12)  
}
```

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(250, 18, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 18, 12) }
```

Border

The CSS property to change the border of an element to Yxy 20.7832, 0.6327, 0.3312 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(250, 18, 12) }
```

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

```
.border{ border-color:rgb(250, 18, 12) }
```

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

Here you see how a box with a 4 pixel rgb(250, 18, 12) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 18, 12); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 18, 12);  
box-shadow:4px 4px 4px 4px rgb(250, 18,  
12) }
```


Background

The CSS property to change the background color of an element to Yxy 20.7832, 0.6327, 0.3312 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 18, 12) }
```

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

```
.background{ background-color: rgb(250, 18,  
12) }
```

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