

Converting Colors

$Y_{xy}(20.2441, 0.2162, 0.1464)$

Have a look what the booklet for
Yxy(20.2441, 0.2162, 0.1464)
contains.

Yxy(20.3131, 0.2167, 0.1470)	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(20.3131, 0.2167, 0.1470)

Conversions

Conversions Part 1

Format	Color
Hex	8164F4
RGB	129, 100, 244
RGB Percent	51%, 39%, 96%
CMY	0.4939, 0.6079, 0.0432
CMYK	0.47, 0.59, 0.00, 0.04
HSL	252°, 87%, 67%
HSV	252°, 59%, 96%
XYZ	29.9445, 20.3131, 87.9267
YIQ	125.0870, -28.9400, 50.9320

Conversions

Conversions Part 2

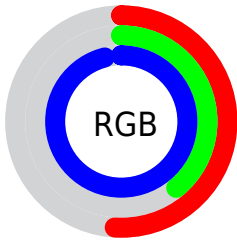
Format	Color
R _{YB}	129, 100, 244
Decimal	8479988
CIE _{Lab}	52.19, 46.30, -68.68
CIE _{LCh}	52, 82.828, 303.988
Y _{xy}	20.3131, 0.2167, 0.1470
Android (android.graphics.Color)	4286670068 (0xFF8164F4)
YUV	125.0870, 58.6241, 3.4317
Hunter-Lab	45.0701, 39.7228, -84.1192

Details

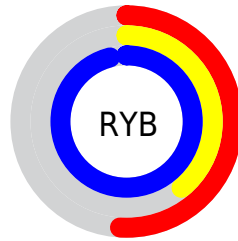
The Yxy color **20.3131, 0.2167, 0.1470** is a light color, and the websafe version is hex **9966FF**. A complement of this color would be **80.0541, 0.3754, 0.4796**, and the grayscale version is **20.3473, 0.3127, 0.3290**.

A 20% lighter version of the original color is **40.3678, 0.2630, 0.2123**, and **7.1488, 0.1851, 0.1061** is the 20% darker color. If you saturate the color by 10%, you get **14.9311, 0.1984, 0.1173**, and if you desaturate by 10%, it is **27.3879, 0.2357, 0.1799**.

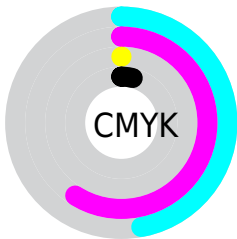
Distribution



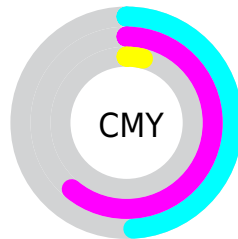
- Red (51%)
- Green (39%)
- Blue (96%)



- Red (51%)
- Yellow (39%)
- Blue (96%)



- Cyan (47%)
- Magenta (59%)
- Yellow (0%)
- Black (4%)





- Cyan (49%)
- Magenta (61%)
- Yellow (4%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 20.3131, 0.2167, 0.1470 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 20.3131, 0.2167, 0.1470 by changing the saturation by 10% instead.


 20.3131, 0.2167,
0.1470


 20.3131, 0.2167,
0.1470


253.6051, 0.2696,
0.2329


 12.6228, 0.2030,
0.1285


 43.9415, 0.2365,
0.1763

 7.1694, 0.1854,
0.1067


 60.6484, 0.2439,
0.1879

 3.5682, 0.1628,
0.0814


 81.1297, 0.2500,
0.1980

 1.4351, 0.1332,
0.0532

 105.7697, 0.2551,
0.2068

 0.2424, 0.0961,
0.0158

134.9529, 0.2596,
0.2145

 0.0000, 0.0384,
0.0000

169.0636, 0.2634,

 0.0000, 0.0000,

0.2214

0.0000

208.4862, 0.2667,
0.2275

■ 20.3131, 0.2167,
0.1470

■ 20.3131, 0.2167,
0.1470

■ 14.9311, 0.1984,
0.1173

■ 27.3879, 0.2357,
0.1799

■ 11.0941, 0.1821,
0.0929

■ 36.2823, 0.2544,
0.2137

■ 8.6311, 0.1690,
0.0756


■ 47.1130, 0.2719,
0.2467


■ 7.2911, 0.1596,
0.0656

■ 59.9863, 0.2877,
0.2777

■ 7.1908, 0.1589,
0.0649

■ 75.0008, 0.3017,
0.3060

 92.2486, 0.3138,
0.3313

 99.3114, 0.3191,
0.3396

Harmonies

Analogous

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



20.3131, 0.1364, 0.1354



20.3131, 0.2167, 0.1470



20.3131, 0.3521, 0.1882

Triad

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



20.3131, 0.2167, 0.1470



20.3131, 0.5613, 0.4163



20.3131, 0.1353, 0.3831

Complementary

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



20.3131, 0.2167, 0.1470



80.0541, 0.3754, 0.4796

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.



20.3131, 0.2255, 0.5698



20.3131, 0.2167, 0.1470



20.3131, 0.4663, 0.5206

Square

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



20.3131, 0.2167, 0.1470



20.3131, 0.5895, 0.3304



20.3131, 0.3451, 0.6073



20.3131, 0.0977, 0.2285

Rectangle

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



20.3131, 0.2167, 0.1470



20.3131, 0.4593, 0.2303



20.3131, 0.3451, 0.6073



20.3131, 0.1597, 0.4505

Sweetspot

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



20.3137, 0.2167, 0.1470



67.8319, 0.2891, 0.2806



57.9390, 0.2317, 0.2923



13.5646, 0.2848, 0.2719



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.



20.3137, 0.2167, 0.1470



15.4580, 0.1947, 0.1115



28.0310, 0.2780, 0.1735



16.0878, 0.3011, 0.3047



3.9557, 0.1600, 0.0655



0.3892, 0.1711, 0.0716

Inverse Universe

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



33.2456, 0.3488, 0.2143



31.2365, 0.3585, 0.1985



71.4749, 0.3265, 0.5072



16.7076, 0.3169, 0.3103



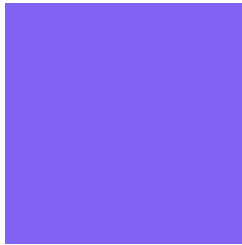
12.6142, 0.3797, 0.1865



1.1229, 0.3709, 0.1817

Previews

White Background



This preview shows how the Yxy color 20.3131, 0.2167, 0.1470 looks on a white background.

Color Contrast Check

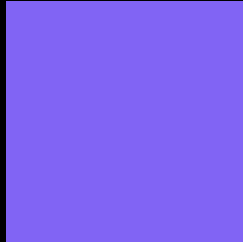
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.3131, 0.2167, 0.1470 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

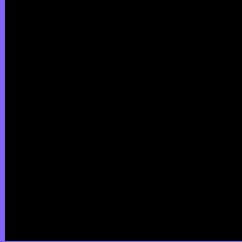
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 20.3131, 0.2167, 0.1470

Background



This preview shows how black text looks on a background with the Yxy color 20.3131, 0.2167, 0.1470.



This preview shows how white text looks on a background with the Yxy color 20.3131, 0.2167, 0.1470.

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

20.3131, 0.2167, 0.1470

Protanopia

20.5887, 0.1737, 0.1454

Deuteranopia

20.4527, 0.1835, 0.1807



Tritanopia

20.2739, 0.2715, 0.3098

Trichromacy



Original Color

20.3131, 0.2167, 0.1470



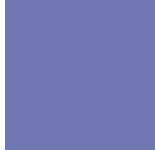
Protanomaly

19.3167, 0.1782, 0.1415



Deuteranomaly

19.0401, 0.1845, 0.1610



Tritanomaly

19.5107, 0.2475, 0.2303

Monochromacy



Original Color

20.3131, 0.2167, 0.1470



Achromatopsia

20.5079, 0.3127, 0.3290



Achromatomaly

19.7536, 0.2693, 0.2427

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.3131, 0.2167, 0.1470 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(129, 100, 244)` looks like.

```
.text, #text, p{  
    color:rgb(129, 100, 244)  
}
```

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(129, 100, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 100, 244) }
```

Border

The CSS property to change the border of an element to Yxy 20.3131, 0.2167, 0.1470 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(129, 100, 244) }
```

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

```
.border{ border-color:rgb(129, 100, 244) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 100, 244)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 100, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 100, 244);  
box-shadow:4px 4px 4px 4px rgb(129, 100,  
244) }
```


Background

The CSS property to change the background color of an element to Yxy 20.3131, 0.2167, 0.1470 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 100, 244) }
```

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

```
.background{ background-color: rgb(129,  
100, 244) }
```

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