

Converting Colors

$Y_{xy}(20.8156, 0.4863, 0.4521)$

Have a look what the booklet for
Yxy(20.8156, 0.4863, 0.4521)
contains.

Yxy(20.8156, 0.4863, 0.4521)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(20.8156, 0.4863, 0.4521)

Conversions

Conversions Part 1

Format	Color
Hex	A87400
RGB	168, 116, 0
RGB Percent	66%, 45%, 0%
CMY	0.3413, 0.5450, 1.0000
CMYK	0.00, 0.31, 1.00, 0.34
HSL	41°, 100%, 33%
HSV	41°, 100%, 66%
XYZ	22.3902, 20.8156, 2.8362
YIQ	118.3240, 68.2280, -25.0520

Conversions

Conversions Part 2

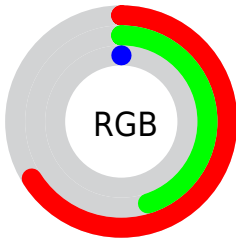
Format	Color
RYB	75, 168, 0
Decimal	11039744
CIELab	52.75, 12.48, 59.24
CIELCh	53, 60.542, 78.108
Yxy	20.8156, 0.4863, 0.4521
Android (android.graphics.Color)	4289229824 (0xFFA87400)
YUV	118.3240, -58.3337, 43.5659
Hunter-Lab	45.6241, 7.7575, 28.2512

Details

The Yxy color **20.8156, 0.4863, 0.4521** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **5.2790, 0.1620, 0.1031**, and the grayscale version is **18.3951, 0.3127, 0.3290**.

A 20% lighter version of the original color is **44.8809, 0.4557, 0.4356**, and **7.5138, 0.5033, 0.4386** is the 20% darker color. If you saturate the color by 10%, you get **20.8168, 0.4863, 0.4521**, and if you desaturate by 10%, it is **22.0885, 0.4739, 0.4530**.

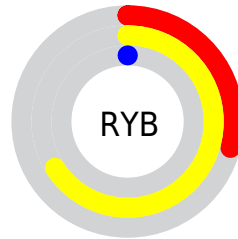
Distribution



Red (66%)

Green (45%)

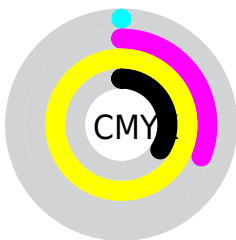
Blue (0%)



Red (29%)

Yellow (66%)

Blue (0%)

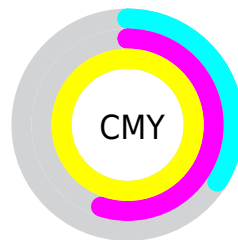


Cyan (0%)

Magenta (31%)

Yellow (100%)

Black (34%)



Cyan (34%)


Magenta (55%)


Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 20.8156, 0.4863, 0.4521 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 20.8156, 0.4863, 0.4521 by changing the saturation by 10% instead.


 20.8156, 0.4863,
0.4521


 20.8156, 0.4863,
0.4521


256.2969, 0.3970,
0.3957


 12.9893, 0.5046,
0.4596


 44.7804, 0.4556,
0.4353

 7.4212, 0.5305,
0.4695


 61.6877, 0.4433,
0.4277


 3.7269, 0.5412,
0.4588

 82.3908, 0.4327,
0.4207

 1.5220, 0.5590,
0.4410

 107.2741, 0.4235,
0.4145

 0.3041, 0.6612,
0.3388


 136.7220, 0.4155,
0.4090


 0.0000, 0.0000,
0.0000

 171.1188, 0.4086,


0.4041


 210.8489, 0.4025,
0.3997


 20.8156, 0.4863,
0.4521

 20.8156, 0.4863,
0.4521

 20.8168, 0.4863,
0.4521

 22.0885, 0.4739,
0.4530

 23.4619, 0.4590,
0.4499

 24.9515, 0.4416,
0.4421

 26.5646, 0.4224,
0.4303

 28.3074, 0.4024,
0.4155

■ 30.1854, 0.3824,
0.3988

■ 32.2036, 0.3631,
0.3811

■ 34.3669, 0.3449,
0.3633

■ 36.6796, 0.3281,
0.3458

Harmonies

Analogous

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



20.8156, 0.5256, 0.3768



20.8156, 0.4863, 0.4521



20.8156, 0.4047, 0.5184

Triad

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



20.8156, 0.4863, 0.4521



20.8156, 0.1558, 0.3133



20.8156, 0.2861, 0.1969

Complementary

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



20.8156, 0.4863, 0.4521



5.2790, 0.1620, 0.1031

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.



20.8156, 0.2001, 0.1751



20.8156, 0.4863, 0.4521



20.8156, 0.1368, 0.2235

Square

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



20.8156, 0.4863, 0.4521



20.8156, 0.2147, 0.4412



20.8156, 0.1516, 0.1815



20.8156, 0.3993, 0.2432

Rectangle

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



20.8156, 0.4863, 0.4521



20.8156, 0.3397, 0.5355



20.8156, 0.1516, 0.1815



20.8156, 0.2533, 0.1867

Sweetspot

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



20.8168, 0.4863, 0.4521



58.2465, 0.3642, 0.3821



8.5812, 0.5685, 0.2905



12.3678, 0.3718, 0.3893



84.8088, 0.3127, 0.3290



15.4872, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



20.8168, 0.4863, 0.4521



37.3886, 0.4878, 0.4509



33.3309, 0.3875, 0.5305



8.3763, 0.3269, 0.3445



15.8185, 0.4854, 0.4528



0.4694, 0.4591, 0.4737

Inverse Universe

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



5.2790, 0.1620, 0.1031



9.2451, 0.1612, 0.1001



3.1145, 0.1589, 0.0649



7.6651, 0.2986, 0.3130



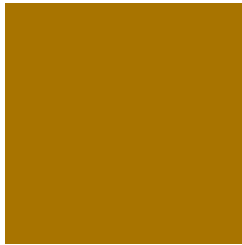
4.0696, 0.1625, 0.1049



0.1889, 0.1813, 0.1727

Previews

White Background



This preview shows how the Yxy color 20.8156, 0.4863, 0.4521 looks on a white background.

Color Contrast Check

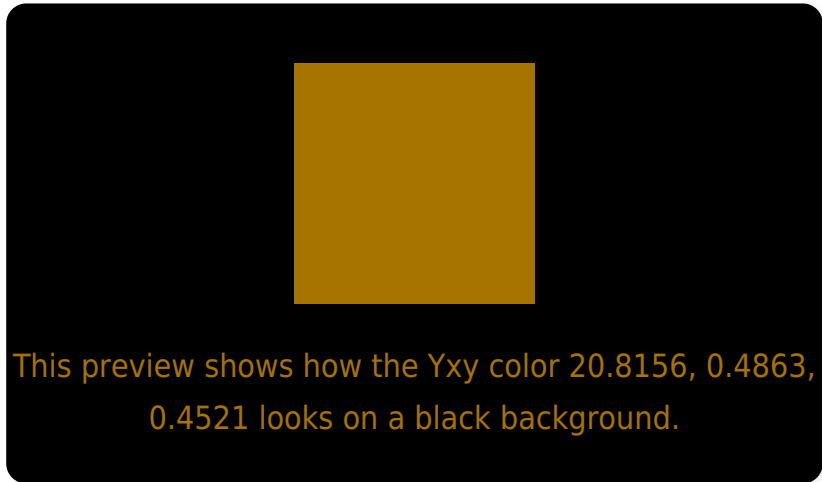
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.8156, 0.4863, 0.4521

Background



This preview shows how black text looks on a background with the Yxy color 20.8156, 0.4863, 0.4521.



This preview shows how white text looks on a background with the Yxy color 20.8156, 0.4863, 0.4521.

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

20.8156, 0.4863, 0.4521

Protanopia

21.0425, 0.4373, 0.4849

Deuteranopia

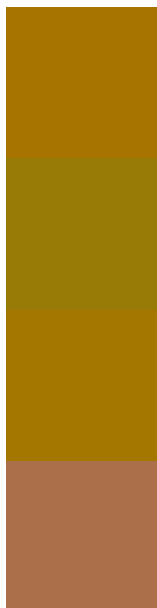
20.9065, 0.4710, 0.4642



Tritanopia

20.8703, 0.3912, 0.3171

Trichromacy



Original Color

20.8156, 0.4863, 0.4521

Protanomaly

20.8567, 0.4552, 0.4730

Deuteranomaly

20.9802, 0.4760, 0.4602

Tritanomaly

20.5212, 0.4439, 0.3841

Monochromacy



Original Color

20.8156, 0.4863, 0.4521

Achromatopsia

18.1164, 0.3127, 0.3290

Achromatomaly

18.4648, 0.3906, 0.4055

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.8156, 0.4863, 0.4521 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(168, 116, 0)` looks like.

```
.text, #text, p{  
    color:rgb(168, 116, 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(168, 116, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 116, 0) }
```

Border

The CSS property to change the border of an element to Yxy 20.8156, 0.4863, 0.4521 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(168, 116, 0) }
```

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

```
.border{ border-color:rgb(168, 116, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 116, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 116, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 116, 0);  
box-shadow:4px 4px 4px 4px rgb(168, 116,  
0) }
```


Background

The CSS property to change the background color of an element to Yxy 20.8156, 0.4863, 0.4521 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 116, 0) }
```

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

```
.background{ background-color: rgb(168,  
116, 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](#).

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