

Converting Colors

$Y_{xy}(20.7100, 0.2802, 0.2752)$

Have a look what the booklet for
Yxy(20.7100, 0.2802, 0.2752)
contains.

Yxy(20.7100, 0.2802, 0.2752)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

$Yxy(20.7100, 0.2802, 0.2752)$

Conversions

Conversions Part 1

Format	Color
Hex	7B7B9A
RGB	123, 123, 154
RGB Percent	48%, 48%, 60%
CMY	0.5176, 0.5177, 0.3961
CMYK	0.20, 0.20, 0.00, 0.40
HSL	240°, 13%, 54%
HSV	240°, 20%, 60%
XYZ	21.0863, 20.7100, 33.4581
YIQ	126.5340, -9.9510, 9.6410

Conversions

Conversions Part 2

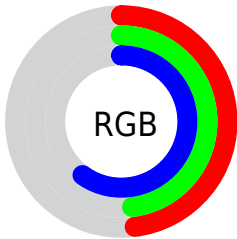
Format	Color
R_{YB}	123, 123, 154
Decimal	8092570
CIE Lab	52.63, 6.86, -16.63
CIE LCh	53, 17.993, 292.422
Yxy	20.7100, 0.2802, 0.2752
Android (android.graphics.Color)	4286282650 (0xFF7B7B9A)
YUV	126.5340, 13.5407, -3.0993
Hunter-Lab	45.5082, 3.0687, -11.7348

Details

The Yxy color $20.7100, 0.2802, 0.2752$ is a dark color, and the websafe version is hex 666699 . A complement of this color would be $31.4092, 0.3421, 0.3777$, and the grayscale version is $21.0124, 0.3127, 0.3290$.

A 20% lighter version of the original color is $44.4441, 0.2879, 0.2868$, and $7.3327, 0.2672, 0.2538$ is the 20% darker color. If you saturate the color by 10%, you get $16.1387, 0.2612, 0.2438$, and if you desaturate by 10%, it is $26.0625, 0.2974, 0.3036$.

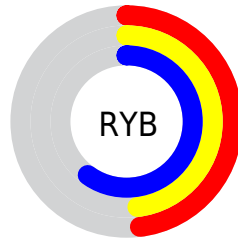
Distribution



Red (48%)

Green (48%)

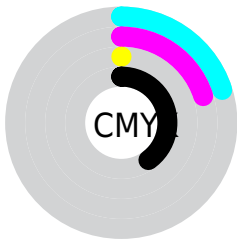
Blue (60%)



Red (48%)

Yellow (48%)

Blue (60%)

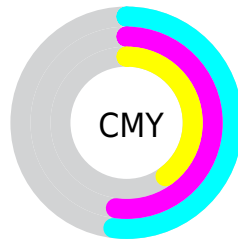


Cyan (20%)

Magenta (20%)

Yellow (0%)

Black (40%)



Cyan (52%)

Magenta (52%)

Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 20.7100, 0.2802, 0.2752 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 20.7100, 0.2802, 0.2752 by changing the saturation by 10% instead.

■ 20.7100, 0.2802,
0.2752

■ 20.7100, 0.2802,
0.2752

■ 255.7333, 0.2987,
0.3050

■ 12.9122, 0.2747,
0.2667

■ 44.6044, 0.2875,
0.2868

■ 7.3681, 0.2670,
0.2551

■ 61.4698, 0.2901,
0.2909

■ 3.6934, 0.2556,
0.2382

■ 82.1264, 0.2922,
0.2943

■ 1.5036, 0.2369,
0.2119

■ 106.9588, 0.2939,
0.2971

■ 0.2912, 0.1921,
0.1259

■ 136.3513, 0.2954,
0.2995

■ 0.0000, 0.0000,
0.0000

170.6883, 0.2966,

0.3016

210.3541, 0.2977,
0.3034

■ 20.7100, 0.2802,
0.2752

■ 20.7100, 0.2802,
0.2752

■ 16.1387, 0.2612,
0.2438

■ 26.0625, 0.2974,
0.3036

■ 12.3096, 0.2408,
0.2100

■ 32.2276, 0.3125,
0.3287

■ 9.1844, 0.2197,
0.1751

■ 39.2380, 0.3258,
0.3506

■ 6.7202, 0.1992,
0.1413

■ 47.1240, 0.3372,
0.3695

■ 4.8696, 0.1809,
0.1109

■ 55.9144, 0.3470,
0.3858

■ 3.5788, 0.1661,
0.0866

■ 65.6365, 0.3555,
0.3998

■ 2.7845, 0.1561,
0.0700

■ 76.3167, 0.3628,
0.4119

■ 2.3339, 0.1500,
0.0600

■ 87.9802, 0.3690,
0.4222

■ 95.1131, 0.3723,
0.4275

Harmonies

Analogous

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



20.7100, 0.2587, 0.2788



20.7100, 0.2802, 0.2752



20.7100, 0.3114, 0.2845

Triad

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



20.7100, 0.2802, 0.2752



20.7100, 0.3785, 0.3570



20.7100, 0.2803, 0.3554

Complementary

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



20.7100, 0.2802, 0.2752



31.4092, 0.3421, 0.3777

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.



20.7100, 0.3113, 0.3798



20.7100, 0.2802, 0.2752



20.7100, 0.3687, 0.3787

Square

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



20.7100, 0.2802, 0.2752



20.7100, 0.3696, 0.3300



20.7100, 0.3437, 0.3880



20.7100, 0.2587, 0.3238

Rectangle

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



20.7100, 0.2802, 0.2752



20.7100, 0.3339, 0.2966



20.7100, 0.3437, 0.3880



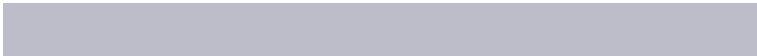
20.7100, 0.2900, 0.3649

Sweetspot

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



20.7108, 0.2802, 0.2752



51.6564, 0.3037, 0.3141



29.6554, 0.2835, 0.3289



11.5442, 0.3028, 0.3125



78.7412, 0.3127, 0.3290



13.2868, 0.3127, 0.3290

Same Dimension

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



20.7108, 0.2802, 0.2752



33.8402, 0.2721, 0.2619



21.9442, 0.2972, 0.2778



6.0266, 0.2988, 0.3060



1.9016, 0.1501, 0.0600



0.0285, 0.1502, 0.0601

Inverse Universe

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



23.3676, 0.3150, 0.2805



39.5322, 0.3155, 0.2699



29.9875, 0.3259, 0.3803



6.3236, 0.3138, 0.3071



7.4947, 0.3211, 0.1543



0.1121, 0.3210, 0.1542

Previews

White Background



This preview shows how the Yxy color 20.7100, 0.2802, 0.2752 looks on a white background.

Color Contrast Check

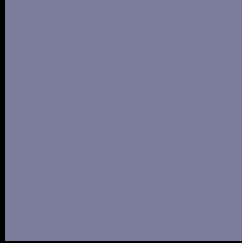
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.7100, 0.2802, 0.2752 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

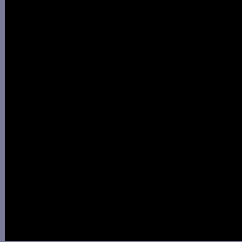
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

Yxy 20.7100, 0.2802, 0.2752

Background



This preview shows how black text looks on a background with the Yxy color 20.7100, 0.2802, 0.2752.



This preview shows how white text looks on a background with the Yxy color 20.7100, 0.2802, 0.2752.

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

20.7100, 0.2802, 0.2752

Protanopia

20.6334, 0.2741, 0.2746

Deuteranopia

20.7100, 0.2802, 0.2752



Tritanopia

20.6924, 0.2951, 0.3107

Trichromacy



Original Color

20.7100, 0.2802, 0.2752

Protanomaly

20.7749, 0.2762, 0.2749

Deuteranomaly

20.7100, 0.2802, 0.2752

Tritanomaly

20.7153, 0.2890, 0.2967

Monochromacy



Original Color

20.7100, 0.2802, 0.2752

Achromatopsia

21.2231, 0.3127, 0.3290

Achromatomaly

21.1635, 0.3008, 0.3094

CSS Examples

Text

The CSS property to change the color of the text to Yxy 20.7100, 0.2802, 0.2752 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(123, 123, 154)` looks like.

```
.text, #text, p{  
    color:rgb(123, 123, 154)  
}
```

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(123, 123, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 123, 154) }
```

Border

The CSS property to change the border of an element to Yxy 20.7100, 0.2802, 0.2752 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(123, 123, 154) }
```

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

```
.border{ border-color:rgb(123, 123, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(123, 123, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 123, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 123, 154);  
box-shadow:4px 4px 4px 4px rgb(123, 123,  
154) }
```


Background

The CSS property to change the background color of an element to Yxy 20.7100, 0.2802, 0.2752 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 123, 154) }
```

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

```
.background{ background-color: rgb(123,  
123, 154) }
```

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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