

Converting Colors

$Y_{xy}(12.2890, 0.2239, 0.2938)$

Have a look what the booklet for
Yxy(12.2890, 0.2239, 0.2938)
contains.

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Color

$Y_{xy}(12.2118, 0.2232, 0.2920)$

Conversions

Conversions Part 1

Format	Color
Hex	1F6B7A
RGB	31, 107, 122
RGB Percent	12%, 42%, 48%
CMY	0.8785, 0.5804, 0.5216
CMYK	0.75, 0.12, 0.00, 0.52
HSL	190°, 60%, 30%
HSV	190°, 75%, 48%
XYZ	9.3345, 12.2118, 20.2749
YIQ	85.9860, -50.1110, -11.4470

Conversions

Conversions Part 2

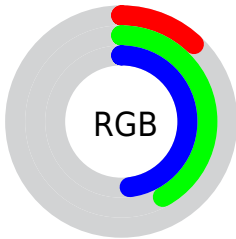
Format	Color
R _Y B	31, 72, 122
Decimal	2059130
CIE Lab	41.55, -17.38, -14.98
CIE LCh	42, 22.945, 220.767
Yxy	12.2118, 0.2232, 0.2920
Android (android.graphics.Color)	4280249210 (0xFF1F6B7A)
YUV	85.9860, 17.7549, -48.2227
Hunter-Lab	34.9454, -13.4741, -9.9376

Details

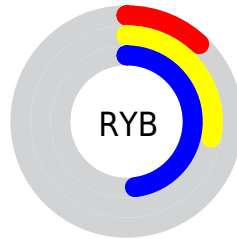
The Yxy color **12.2118, 0.2232, 0.2920** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **6.1869, 0.5304, 0.3548**, and the grayscale version is **9.2712, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.0259, 0.2454, 0.3038**, and **3.6090, 0.2091, 0.2728** is the 20% darker color. If you saturate the color by 10%, you get **11.6435, 0.2171, 0.2863**, and if you desaturate by 10%, it is **12.8625, 0.2311, 0.2976**.

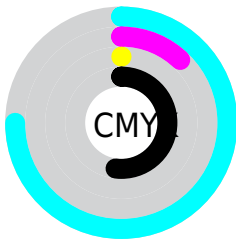
Distribution



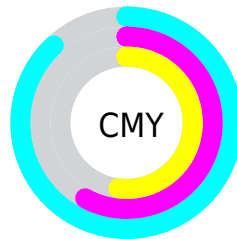
- Red (12%)
- Green (42%)
- Blue (48%)



- Red (12%)
- Yellow (28%)
- Blue (48%)



- Cyan (75%)
- Magenta (12%)
- Yellow (0%)
- Black (52%)





- Cyan (88%)
- Magenta (58%)
- Yellow (52%)


Brightness & Saturation Gradients


These gradients show how the Yxy color 12.2118, 0.2232, 0.2920 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 12.2118, 0.2232, 0.2920 by changing the saturation by 10% instead.


 12.2118, 0.2232,
0.2920


 12.2118, 0.2232,
0.2920


 205.8025, 0.2761,
0.3157


 6.8881, 0.2064,
0.2833


 29.8803, 0.2449,
0.3024


 3.3922, 0.1823,
0.2696

 42.9938, 0.2522,
0.3057


 1.3398, 0.1451,
0.2458

 59.4728, 0.2582,
0.3083

 0.1717, 0.0000,
0.1199

 79.7015, 0.2630,
0.3103

 0.0000, 0.0000,
0.0000

 104.0645, 0.2671,
0.3121

 132.9460, 0.2706,

0.3135

166.7306, 0.2736,
0.3147

■ 12.2118, 0.2232,
0.2920

■ 12.2118, 0.2232,
0.2920

■ 11.6435, 0.2171,
0.2863

■ 12.8625, 0.2311,
0.2976

■ 11.1453, 0.2127,
0.2807

■ 13.6015, 0.2406,
0.3032

■ 10.8889, 0.2105,
0.2776

■ 14.4358, 0.2517,
0.3085

■ 15.3711, 0.2640,
0.3137

■ 16.4128, 0.2773,
0.3185

■ 17.5656, 0.2914,
0.3230

■ 18.8343, 0.3059,
0.3272

■ 20.2231, 0.3207,
0.3310

■ 21.7360, 0.3354,
0.3344

Harmonies

Analogous

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



12.2118, 0.2421, 0.3389



12.2118, 0.2232, 0.2920



12.2118, 0.2259, 0.2607

Triad

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



12.2118, 0.2232, 0.2920



12.2118, 0.3414, 0.2794



12.2118, 0.3751, 0.4159

Complementary

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



12.2118, 0.2232, 0.2920



6.1869, 0.5304, 0.3548

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.



12.2118, 0.4063, 0.3906



12.2118, 0.2232, 0.2920



12.2118, 0.3871, 0.3137

Square

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



12.2118, 0.2232, 0.2920



12.2118, 0.2906, 0.2564



12.2118, 0.4114, 0.3532



12.2118, 0.3286, 0.4167

Rectangle

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



12.2118, 0.2232, 0.2920



12.2118, 0.2393, 0.2509



12.2118, 0.4114, 0.3532



12.2118, 0.3878, 0.4096

Sweetspot

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



12.2122, 0.2232, 0.2920



29.2841, 0.2802, 0.3195



14.3948, 0.2939, 0.5295



6.6027, 0.2773, 0.3185



62.0916, 0.3127, 0.3290



7.8288, 0.3127, 0.3290

Same Dimension

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



12.2122, 0.2232, 0.2920



19.8163, 0.2136, 0.2821



5.2322, 0.1936, 0.1733



4.4055, 0.2994, 0.3254



11.4556, 0.2104, 0.2775



53.5852, 0.2096, 0.2746

Inverse Universe

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



6.1773, 0.3505, 0.1939



9.3842, 0.3610, 0.1816



11.5712, 0.4521, 0.4381



4.0667, 0.3160, 0.3113



5.3633, 0.3658, 0.1789



25.4766, 0.3685, 0.1804

Previews

White Background



This preview shows how the Yxy color 12.2118, 0.2232, 0.2920 looks on a white 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

Black Background



This preview shows how the Yxy color 12.2118, 0.2232, 0.2920 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

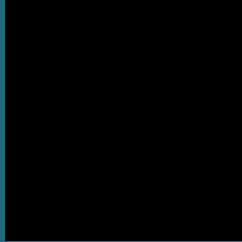
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.2118, 0.2232, 0.2920

Background



This preview shows how black text looks on a background with the Yxy color 12.2118, 0.2232, 0.2920.



This preview shows how white text looks on a background with the Yxy color 12.2118, 0.2232, 0.2920.

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

12.2118, 0.2232, 0.2920

Protanopia

12.1669, 0.2848, 0.2891

Deuteranopia

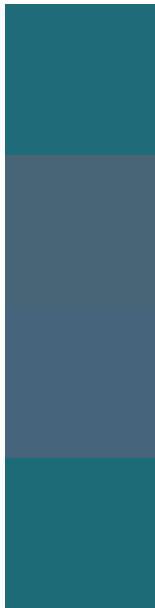
12.1736, 0.2715, 0.2666



Tritanopia

12.2425, 0.2257, 0.3062

Trichromacy



Original Color

12.2118, 0.2232, 0.2920

Protanomaly

11.9550, 0.2543, 0.2890

Deuteranomaly

11.8717, 0.2471, 0.2736

Tritanomaly

12.3039, 0.2247, 0.3014

Monochromacy



Original Color

12.2118, 0.2232, 0.2920

Achromatopsia

9.3059, 0.3127, 0.3290

Achromatomaly

10.0645, 0.2668, 0.3158

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.2118, 0.2232, 0.2920 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(31, 107, 122)` looks like.

```
.text, #text, p{  
  color:rgb(31, 107, 122)  
}
```

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(31, 107, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 107, 122) }
```

Border

The CSS property to change the border of an element to Yxy 12.2118, 0.2232, 0.2920 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(31, 107, 122) }
```

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

```
.border{ border-color:rgb(31, 107, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 107, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 107, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 107, 122);  
box-shadow:4px 4px 4px 4px rgb(31, 107,  
122) }
```


Background

The CSS property to change the background color of an element to Yxy 12.2118, 0.2232, 0.2920 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 107, 122) }
```

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

```
.background{ background-color: rgb(31, 107,  
122) }
```

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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