

Converting Colors

$Y_{xy}(12.6529, 0.2174, 0.2580)$

Have a look what the booklet for
Yxy(12.6529, 0.2174, 0.2580)
contains.

Yxy(12.6065, 0.2178, 0.2585)	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(12.6065, 0.2178, 0.2585)

Conversions

Conversions Part 1

Format	Color
Hex	2A6A89
RGB	42, 106, 137
RGB Percent	16%, 42%, 54%
CMY	0.8356, 0.5843, 0.4627
CMYK	0.69, 0.23, 0.00, 0.46
HSL	200°, 53%, 35%
HSV	200°, 69%, 54%
XYZ	10.6216, 12.6065, 25.5397
YIQ	90.3980, -48.0950, -3.9270

Conversions

Conversions Part 2

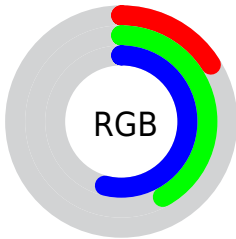
Format	Color
R_{YB}	42, 80, 137
Decimal	2779785
CIE _{Lab}	42.16, -9.87, -23.06
CIE _{LCh}	42, 25.084, 246.824
Yxy	12.6065, 0.2178, 0.2585
Android (android.graphics.Color)	4280969865 (0xFF2A6A89)
YUV	90.3980, 22.9748, -42.4450
Hunter-Lab	35.5056, -8.7359, -17.7943

Details

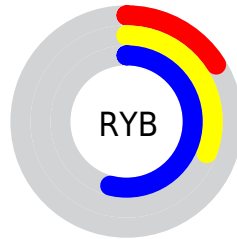
The Yxy color **12.6065, 0.2178, 0.2585** is a dark color, and the websafe version is hex **006699**. A complement of this color would be **10.2383, 0.4889, 0.3818**, and the grayscale version is **10.2697, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.5282, 0.2399, 0.2752**, and **3.8160, 0.1969, 0.2288** is the 20% darker color. If you saturate the color by 10%, you get **11.4697, 0.2085, 0.2464**, and if you desaturate by 10%, it is **13.8908, 0.2288, 0.2704**.

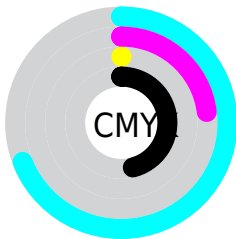
Distribution



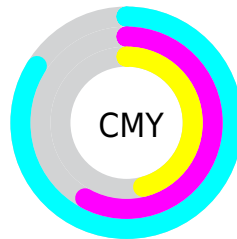
- Red (16%)
- Green (42%)
- Blue (54%)



- Red (16%)
- Yellow (31%)
- Blue (54%)



- Cyan (69%)
- Magenta (23%)
- Yellow (0%)
- Black (46%)



- Cyan (84%)
- Magenta (58%)
- Yellow (46%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.6065, 0.2178, 0.2585 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 12.6065, 0.2178, 0.2585 by changing the saturation by 10% instead.

12.6065, 0.2178,
0.2585

12.6065, 0.2178,
0.2585

208.3802, 0.2734,
0.3014

7.1581, 0.2007,
0.2444

30.5950, 0.2403,
0.2764

3.5612, 0.1766,
0.2237

43.9040, 0.2480,
0.2824

1.4313, 0.1409,
0.1912

60.6019, 0.2542,
0.2871

0.2396, 0.0000,
0.0987

81.0732, 0.2594,
0.2910

0.0000, 0.0000,
0.0000

105.7023, 0.2637,
0.2943

134.8735, 0.2674,

0.2970

168.9714, 0.2706,
0.2993

■ 12.6065, 0.2178,
0.2585

■ 12.6065, 0.2178,
0.2585

■ 11.4697, 0.2085,
0.2464

■ 13.8908, 0.2288,
0.2704

■ 10.4679, 0.2012,
0.2343

■ 15.3312, 0.2412,
0.2819

■ 9.5727, 0.1953,
0.2224

■ 16.9367, 0.2547,
0.2929

■ 9.5206, 0.1949,
0.2216

■ 18.7154, 0.2690,
0.3032

■ 20.6746, 0.2838,
0.3128

■ 22.8212, 0.2988,
0.3215

■ 25.1616, 0.3136,
0.3295

■ 27.7020, 0.3282,
0.3366

■ 30.4480, 0.3423,
0.3430

Harmonies

Analogous

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



12.6065, 0.2179, 0.2945



12.6065, 0.2178, 0.2585



12.6065, 0.2400, 0.2437

Triad

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



12.6065, 0.2178, 0.2585



12.6065, 0.3877, 0.3070



12.6065, 0.3365, 0.4262

Complementary

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



12.6065, 0.2178, 0.2585



10.2383, 0.4889, 0.3818

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.



12.6065, 0.3854, 0.4203



12.6065, 0.2178, 0.2585



12.6065, 0.4178, 0.3489

Square

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



12.6065, 0.2178, 0.2585



12.6065, 0.3362, 0.2717



12.6065, 0.4162, 0.3900



12.6065, 0.2836, 0.3985

Rectangle

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



12.6065, 0.2178, 0.2585



12.6065, 0.2661, 0.2452



12.6065, 0.4162, 0.3900



12.6065, 0.3539, 0.4278

Sweetspot

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



12.6069, 0.2178, 0.2585



36.2737, 0.2807, 0.3108



18.8499, 0.2830, 0.4820



7.9478, 0.2773, 0.3086



69.2071, 0.3127, 0.3290



10.0482, 0.3127, 0.3290

Same Dimension

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



12.6069, 0.2178, 0.2585



19.5373, 0.2043, 0.2398



5.4611, 0.1912, 0.1482



5.4184, 0.2991, 0.3217



8.8908, 0.1950, 0.2220



0.0858, 0.2101, 0.2762

Inverse Universe

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



8.0096, 0.3795, 0.2212



12.0877, 0.4006, 0.2106



18.8142, 0.4232, 0.4577



5.1017, 0.3183, 0.3144



5.6817, 0.4211, 0.2093



0.0404, 0.3670, 0.1795

Previews

White Background



This preview shows how the Yxy color 12.6065, 0.2178, 0.2585 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 12.6065, 0.2178, 0.2585 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

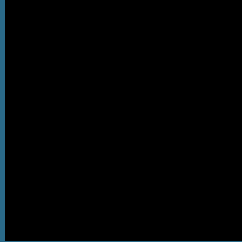
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.6065, 0.2178, 0.2585

Background



This preview shows how black text looks on a background with the Yxy color 12.6065, 0.2178, 0.2585.

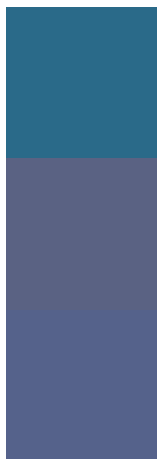


This preview shows how white text looks on a background with the Yxy color 12.6065, 0.2178, 0.2585.

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

12.6065, 0.2178, 0.2585

Protanopia

12.5477, 0.2617, 0.2590

Deuteranopia

12.5307, 0.2482, 0.2434



Tritanopia

12.5065, 0.2265, 0.3064

Trichromacy



Original Color

12.6065, 0.2178, 0.2585

Protanomaly

12.4173, 0.2423, 0.2586

Deuteranomaly

12.4075, 0.2343, 0.2485

Tritanomaly

12.5459, 0.2231, 0.2879

Monochromacy



Original Color

12.6065, 0.2178, 0.2585

Achromatopsia

10.2242, 0.3127, 0.3290

Achromatomaly

10.8437, 0.2668, 0.3018

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.6065, 0.2178, 0.2585 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(42, 106, 137)` looks like.

```
.text, #text, p{  
    color:rgb(42, 106, 137)  
}
```

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(42, 106, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 106, 137) }
```

Border

The CSS property to change the border of an element to Yxy 12.6065, 0.2178, 0.2585 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(42, 106, 137) }
```

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

```
.border{ border-color:rgb(42, 106, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(42, 106, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 106, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 106, 137);  
box-shadow:4px 4px 4px 4px rgb(42, 106,  
137) }
```


Background

The CSS property to change the background color of an element to Yxy 12.6065, 0.2178, 0.2585 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 106, 137) }
```

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

```
.background{ background-color: rgb(42, 106,  
137) }
```

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