

Converting Colors

$Y_{xy}(12.8558, 0.1798, 0.1398)$

Have a look what the booklet for
Yxy(12.8558, 0.1798, 0.1398)
contains.

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Color

Yxy(12.8653, 0.1798, 0.1399)

Conversions

Conversions Part 1

Format	Color
Hex	2D5CD2
RGB	45, 92, 210
RGB Percent	18%, 36%, 82%
CMY	0.8240, 0.6391, 0.1766
CMYK	0.79, 0.56, 0.00, 0.18
HSL	223°, 65%, 50%
HSV	223°, 79%, 82%
XYZ	16.5345, 12.8653, 62.5609
YIQ	91.3990, -65.8900, 26.7340

Conversions

Conversions Part 2

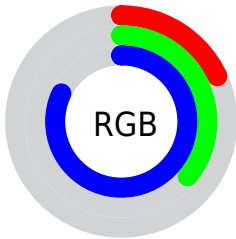
Format	Color
R_{YB}	45, 82, 210
Decimal	2972882
CIE _{Lab}	42.56, 26.71, -65.30
CIE _{LCh}	43, 70.554, 292.242
Yxy	12.8653, 0.1798, 0.1399
Android (android.graphics.Color)	4281162962 (0xFF2D5CD2)
YUV	91.3990, 58.4703, -40.6919
Hunter-Lab	35.8682, 19.5155, -78.3050

Details

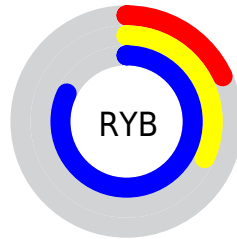
The Yxy color **12.8653, 0.1798, 0.1399** is a dark color, and the websafe version is hex **3366CC**. The color can be described as dark washed blue. A complement of this color would be **40.0184, 0.4547, 0.4537**, and the grayscale version is **10.4279, 0.3127, 0.3290**.

A 20% lighter version of the original color is **30.2790, 0.2132, 0.1848**, and **4.3661, 0.1620, 0.1033** is the 20% darker color. If you saturate the color by 10%, you get **10.1556, 0.1686, 0.1168**, and if you desaturate by 10%, it is **16.3268, 0.1941, 0.1657**.

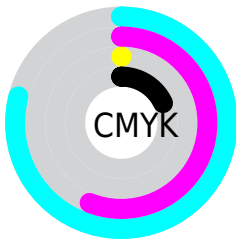
Distribution



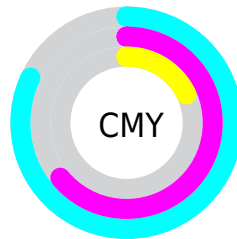
- Red (18%)
- Green (36%)
- Blue (82%)



- Red (18%)
- Yellow (32%)
- Blue (82%)



- Cyan (79%)
- Magenta (56%)
- Yellow (0%)
- Black (18%)



- Cyan (82%)
- Magenta (64%)
- Yellow (18%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 12.8653, 0.1798, 0.1399 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 12.8653, 0.1798, 0.1399 by changing the saturation by 10% instead.

■ 12.8653, 0.1798,
0.1399

■ 12.8653, 0.1798,
0.1399

■ 210.0526, 0.2542,
0.2366

■ 7.3359, 0.1603,
0.1176

■ 31.0616, 0.2080,
0.1743

■ 3.6730, 0.1355,
0.0912

■ 44.4972, 0.2183,
0.1875

■ 1.4924, 0.1043,
0.0609

■ 61.3370, 0.2269,
0.1988

■ 0.2834, 0.0672,
0.0206

■ 81.9654, 0.2341,
0.2085

■ 0.0000, 0.0000,
0.0000

■ 106.7667, 0.2403,
0.2170

136.1255, 0.2456,

0.2244

170.4259, 0.2502,
0.2308

■ 12.8653, 0.1798,
0.1399

■ 12.8653, 0.1798,
0.1399

■ 10.1556, 0.1686,
0.1168

■ 16.3268, 0.1941,
0.1657

■ 8.1180, 0.1607,
0.0974

■ 20.5980, 0.2107,
0.1928

■ 7.8783, 0.1597,
0.0950

■ 25.7316, 0.2286,
0.2200

■ 31.7751, 0.2471,
0.2462

■ 38.7722, 0.2654,
0.2707

■ 46.7637, 0.2830,
0.2932

■ 55.7878, 0.2995,
0.3134

■ 65.8809, 0.3147,
0.3313

■ 77.0772, 0.3287,
0.3471

Harmonies

Analogous

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



12.8653, 0.1189, 0.1404



12.8653, 0.1798, 0.1399



12.8653, 0.2932, 0.1695

Triad

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



12.8653, 0.1798, 0.1399



12.8653, 0.5818, 0.3810



12.8653, 0.1657, 0.4612

Complementary

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



12.8653, 0.1798, 0.1399



40.0184, 0.4547, 0.4537

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.



12.8653, 0.2718, 0.6049



12.8653, 0.1798, 0.1399



12.8653, 0.5104, 0.4805

Square

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



12.8653, 0.1798, 0.1399



12.8653, 0.5694, 0.3004



12.8653, 0.3943, 0.5802



12.8653, 0.1079, 0.2787

Rectangle

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



12.8653, 0.1798, 0.1399



12.8653, 0.3959, 0.2052



12.8653, 0.3943, 0.5802



12.8653, 0.1970, 0.5246

Sweetspot

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



12.8656, 0.1798, 0.1399



65.3884, 0.2731, 0.2808



49.1845, 0.2520, 0.4064



13.0690, 0.2667, 0.2725



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.



12.8656, 0.1798, 0.1399



13.6253, 0.1632, 0.1039



8.1355, 0.1835, 0.0951



11.9597, 0.2982, 0.3119



4.9569, 0.1604, 0.0975



0.4132, 0.1707, 0.1347

Inverse Universe

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



16.3380, 0.5119, 0.2841



22.2463, 0.5687, 0.2942



55.6053, 0.3846, 0.5137



11.8630, 0.3246, 0.3224



8.5717, 0.5796, 0.2967



0.4930, 0.5263, 0.2673

Previews

White Background



This preview shows how the Yxy color 12.8653, 0.1798, 0.1399 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 12.8653, 0.1798, 0.1399 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

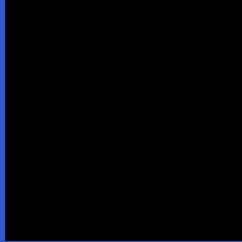
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 12.8653, 0.1798, 0.1399

Background



This preview shows how black text looks on a background with the Yxy color 12.8653, 0.1798, 0.1399.



This preview shows how white text looks on a background with the Yxy color 12.8653, 0.1798, 0.1399.

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

12.8653, 0.1798, 0.1399

Protanopia

12.7254, 0.1742, 0.1470

Deuteranopia

12.6373, 0.1849, 0.1856



Tritanopia

12.6769, 0.2198, 0.3111

Trichromacy



Original Color

12.8653, 0.1798, 0.1399

Protanomaly

12.7508, 0.1751, 0.1445

Deuteranomaly

12.4764, 0.1811, 0.1655

Tritanomaly

12.2452, 0.1988, 0.2265

Monochromacy



Original Color

12.8653, 0.1798, 0.1399

Achromatopsia

10.4616, 0.3127, 0.3290

Achromatomaly

10.6592, 0.2385, 0.2339

CSS Examples

Text

The CSS property to change the color of the text to Yxy 12.8653, 0.1798, 0.1399 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(45, 92, 210)` looks like.

```
.text, #text, p{  
    color:rgb(45, 92, 210)  
}
```

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(45, 92, 210) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 92, 210) }
```

Border

The CSS property to change the border of an element to Yxy 12.8653, 0.1798, 0.1399 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(45, 92, 210) }
```

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

```
.border{ border-color:rgb(45, 92, 210) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 92, 210)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 92, 210); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 92, 210);  
box-shadow:4px 4px 4px 4px rgb(45, 92,  
210) }
```


Background

The CSS property to change the background color of an element to $\text{Yxy } 12.8653, 0.1798, 0.1399$ is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 92, 210) }
```

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

```
.background{ background-color: rgb(45, 92,  
210) }
```

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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