

Converting Colors

$Y_{xy}(10.2270, 0.1828, 0.1587)$

Have a look what the booklet for
Yxy(10.2270, 0.1828, 0.1587)
contains.

Yxy(10.2270, 0.1828, 0.1587)	3
Conversions	4
Details	6
Harmonies	12
Previews	24
Color Blindness Simulation	27
CSS Examples	30

Color

Yxy(10.2270, 0.1828, 0.1587)

Conversions

Conversions Part 1

Format	Color
Hex	1E57B0
RGB	30, 87, 176
RGB Percent	12%, 34%, 69%
CMY	0.8825, 0.6588, 0.3097
CMYK	0.83, 0.51, 0.00, 0.31
HSL	217°, 71%, 40%
HSV	217°, 83%, 69%
XYZ	11.7801, 10.2270, 42.4353
YIQ	80.1030, -62.5410, 15.5950

Conversions

Conversions Part 2

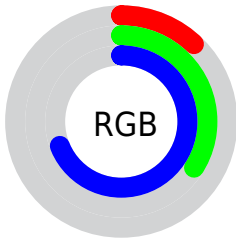
Format	Color
R_{YB}	30, 71, 176
Decimal	1988528
CIE _{Lab}	38.25, 15.47, -52.56
CIE _{LCh}	38, 54.789, 286.399
Yxy	10.2270, 0.1828, 0.1587
Android (android.graphics.Color)	4280178608 (0xFF1E57B0)
YUV	80.1030, 47.2772, -43.9403
Hunter-Lab	31.9797, 9.7880, -56.2888

Details

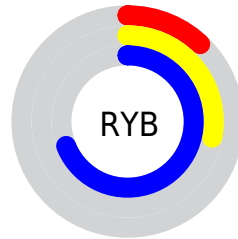
The Yxy color **10.2270, 0.1828, 0.1587** is a dark color, and the websafe version is hex **0066CC**. A complement of this color would be **22.5122, 0.4802, 0.4370**, and the grayscale version is **7.9566, 0.3127, 0.3290**.

A 20% lighter version of the original color is **26.1438, 0.2126, 0.1942**, and **3.1578, 0.1662, 0.1182** is the 20% darker color. If you saturate the color by 10%, you get **8.4228, 0.1733, 0.1377**, and if you desaturate by 10%, it is **12.4376, 0.1950, 0.1813**.

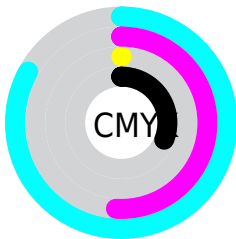
Distribution



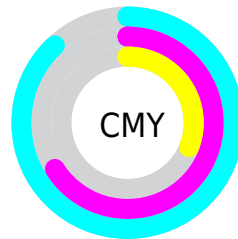
- Red (12%)
- Green (34%)
- Blue (69%)



- Red (12%)
- Yellow (28%)
- Blue (69%)



- Cyan (83%)
- Magenta (51%)
- Yellow (0%)
- Black (31%)



- Cyan (88%)
- Magenta (66%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the Yxy color 10.2270, 0.1828, 0.1587 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 10.2270, 0.1828, 0.1587 by changing the saturation by 10% instead.

■ 10.2270, 0.1828,
0.1587

■ 10.2270, 0.1828,
0.1587

■ 192.2846, 0.2585,
0.2526

■ 5.5497, 0.1613,
0.1343

■ 26.2216, 0.2126,
0.1941

■ 2.5733, 0.1330,
0.1038

■ 38.3077, 0.2231,
0.2072

■ 0.9132, 0.0961,
0.0668

■ 53.6322, 0.2318,
0.2180

■ 0.0000, 0.0300,
0.0000

■ 72.5795, 0.2390,
0.2271

■ 0.0000, 0.0000,
0.0000

■ 95.5340, 0.2450,
0.2349

■ 122.8801, 0.2502,

0.2416

155.0022, 0.2546,
0.2475

■ 10.2270, 0.1828,
0.1587

■ 10.2270, 0.1828,
0.1587

■ 8.4228, 0.1733,
0.1377

■ 12.4376, 0.1950,
0.1813

■ 7.3601, 0.1678,
0.1241

■ 15.0861, 0.2095,
0.2047

■ 18.2007, 0.2255,
0.2279

■ 21.8067, 0.2423,
0.2504

■ 25.9273, 0.2595,
0.2715

■ 30.5840, 0.2764,
0.2910

■ 35.7968, 0.2928,
0.3087

■ 41.5849, 0.3083,
0.3246

■ 47.9664, 0.3228,
0.3387

Harmonies

Analogous

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



10.2270, 0.1334, 0.1664



10.2270, 0.1828, 0.1587



10.2270, 0.2748, 0.1807

Triad

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



10.2270, 0.1828, 0.1587



10.2270, 0.5522, 0.3707



10.2270, 0.2050, 0.4682

Complementary

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



10.2270, 0.1828, 0.1587



22.5122, 0.4802, 0.4370

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.



10.2270, 0.3066, 0.5635



10.2270, 0.1828, 0.1587



10.2270, 0.5067, 0.4539

Square

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



10.2270, 0.1828, 0.1587



10.2270, 0.5168, 0.2959



10.2270, 0.4149, 0.5360



10.2270, 0.1399, 0.3158

Rectangle

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



10.2270, 0.1828, 0.1587



10.2270, 0.3585, 0.2104



10.2270, 0.4149, 0.5360



10.2270, 0.2362, 0.5132

Sweetspot

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



10.2273, 0.1828, 0.1587



53.2914, 0.2723, 0.2864



32.6305, 0.2601, 0.4396



10.9163, 0.2665, 0.2798



89.0005, 0.3127, 0.3290



17.0645, 0.3127, 0.3290

Same Dimension

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



10.2273, 0.1828, 0.1587



12.9358, 0.1670, 0.1211



4.6096, 0.1689, 0.0831



8.7564, 0.2985, 0.3147



5.5061, 0.1684, 0.1261



0.2886, 0.1845, 0.1842

Inverse Universe

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



10.8465, 0.4902, 0.2646



17.4723, 0.5451, 0.2776



38.7700, 0.3997, 0.5074



8.5584, 0.3228, 0.3201



7.0960, 0.5381, 0.2738



0.2349, 0.4635, 0.2327

Previews

White Background



This preview shows how the Yxy color 10.2270, 0.1828, 0.1587 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 10.2270, 0.1828, 0.1587 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

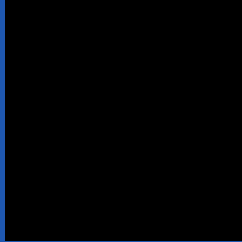
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

Yxy 10.2270, 0.1828, 0.1587

Background



This preview shows how black text looks on a background with the Yxy color 10.2270, 0.1828, 0.1587.



This preview shows how white text looks on a background with the Yxy color 10.2270, 0.1828, 0.1587.

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

10.2270, 0.1828, 0.1587

Protanopia

10.3083, 0.1846, 0.1594

Deuteranopia

10.1924, 0.1848, 0.1851



Tritanopia

10.1550, 0.2200, 0.3122

Trichromacy



Original Color

10.2270, 0.1828, 0.1587

Protanomaly

10.2743, 0.1838, 0.1591

Deuteranomaly

10.1366, 0.1832, 0.1739

Tritanomaly

9.8943, 0.2023, 0.2404

Monochromacy



Original Color

10.2270, 0.1828, 0.1587

Achromatopsia

8.0220, 0.3127, 0.3290

Achromatomaly

8.4485, 0.2401, 0.2482

CSS Examples

Text

The CSS property to change the color of the text to Yxy 10.2270, 0.1828, 0.1587 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(30, 87, 176)` looks like.

```
.text, #text, p{  
    color:rgb(30, 87, 176)  
}
```

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(30, 87, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(30, 87, 176) }
```

Border

The CSS property to change the border of an element to Yxy 10.2270, 0.1828, 0.1587 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(30, 87, 176) }
```

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

```
.border{ border-color:rgb(30, 87, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(30, 87, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(30, 87, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(30, 87, 176);  
box-shadow:4px 4px 4px 4px rgb(30, 87,  
176) }
```


Background

The CSS property to change the background color of an element to Yxy 10.2270, 0.1828, 0.1587 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(30, 87, 176) }
```

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

```
.background{ background-color: rgb(30, 87,  
176) }
```

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