

Converting Colors

$Y_{xy}(38.4081, 0.2044, 0.2524)$

Have a look what the booklet for
Yxy(38.4081, 0.2044, 0.2524)
contains.

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Color

Yxy(38.2426, 0.2042, 0.2514)

Conversions

Conversions Part 1

Format	Color
Hex	12B3E9
RGB	18, 179, 233
RGB Percent	7%, 70%, 91%
CMY	0.9312, 0.2981, 0.0864
CMYK	0.92, 0.23, 0.00, 0.09
HSL	195°, 86%, 49%
HSV	195°, 92%, 91%
XYZ	31.0626, 38.2426, 82.8133
YIQ	137.0170, -113.2900, -17.3380

Conversions

Conversions Part 2

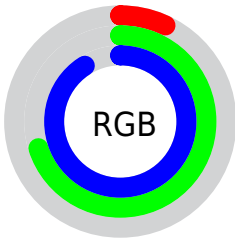
Format	Color
RYB	18, 110, 233
Decimal	1225705
CIELab	68.20, -18.52, -37.39
CIELCh	68, 41.727, 243.649
Yxy	38.2426, 0.2042, 0.2514
Android (android.graphics.Color)	4279415785 (0xFF12B3E9)
YUV	137.0170, 47.3196, -104.3779
Hunter-Lab	61.8406, -18.5603, -36.1093

Details

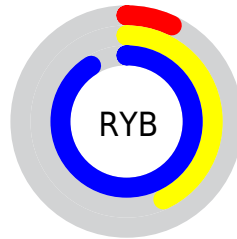
The Yxy color **38.2426, 0.2042, 0.2514** is a dark color, and the websafe version is hex **33CCFF**. The color can be described as middle washed azure. A complement of this color would be **21.9336, 0.5918, 0.3607**, and the grayscale version is **24.8158, 0.3127, 0.3290**.

A 20% lighter version of the original color is **70.0162, 0.2366, 0.3050**, and **18.0960, 0.1980, 0.2327** is the 20% darker color. If you saturate the color by 10%, you get **36.3861, 0.2012, 0.2444**, and if you desaturate by 10%, it is **40.9773, 0.2095, 0.2608**.

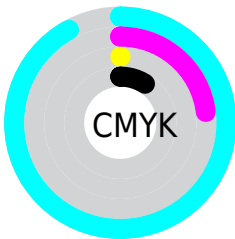
Distribution



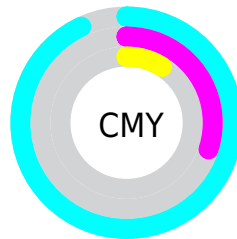
- Red (7%)
- Green (70%)
- Blue (91%)



- Red (7%)
- Yellow (43%)
- Blue (91%)



- Cyan (92%)
- Magenta (23%)
- Yellow (0%)
- Black (9%)





- Cyan (93%)
- Magenta (30%)
- Yellow (9%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 38.2426, 0.2042, 0.2514 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 38.2426, 0.2042, 0.2514 by changing the saturation by 10% instead.


 38.2426, 0.2042,
0.2514


 38.2426, 0.2042,
0.2514


338.6595, 0.2571,
0.2915

 26.1710, 0.1918,
0.2413


 72.4798, 0.2229,
0.2661


 16.9516, 0.1763,
0.2284


 95.4143, 0.2301,
0.2716

 10.2000, 0.1568,
0.2114


 122.7385, 0.2363,
0.2763

 5.5318, 0.1318,
0.1885

 154.8368, 0.2416,
0.2802

 2.5625, 0.0995,
0.1566

 192.0937, 0.2462,
0.2836

 0.9079, 0.0510,
0.1127

234.8935, 0.2503,

 0.0000, 0.0000,

0.2866

0.0000

283.6207, 0.2539,
0.2892

■ 38.2426, 0.2042,
0.2514

■ 38.2426, 0.2042,
0.2514

■ 36.3861, 0.2012,
0.2444

■ 40.9773, 0.2095,
0.2608

■ 44.0935, 0.2168,
0.2702

■ 47.6373, 0.2261,
0.2796

■ 51.6459, 0.2372,
0.2887

■ 56.1519, 0.2498,
0.2975

■ 61.1843, 0.2636,
0.3059

■ 66.7698, 0.2783,
0.3137

■ 72.9327, 0.2935,
0.3209

■ 79.6959, 0.3089,
0.3275

Harmonies

Analogous

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



38.2426, 0.2068, 0.2942



38.2426, 0.2042, 0.2514



38.2426, 0.2264, 0.2330

Triad

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



38.2426, 0.2042, 0.2514



38.2426, 0.3934, 0.2988



38.2426, 0.3453, 0.4426

Complementary

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



38.2426, 0.2042, 0.2514



21.9336, 0.5918, 0.3607

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.



38.2426, 0.4000, 0.4302



38.2426, 0.2042, 0.2514



38.2426, 0.4315, 0.3451

Square

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



38.2426, 0.2042, 0.2514



38.2426, 0.3325, 0.2606



38.2426, 0.4329, 0.3923



38.2426, 0.2847, 0.4151

Rectangle

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



38.2426, 0.2042, 0.2514



38.2426, 0.2540, 0.2335



38.2426, 0.4329, 0.3923



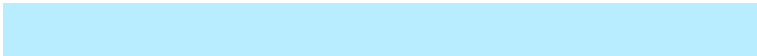
38.2426, 0.3650, 0.4424

Sweetspot

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



38.2439, 0.2042, 0.2514



77.9934, 0.2699, 0.3094



58.8462, 0.2903, 0.5597



16.0756, 0.2636, 0.3059



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.



38.2439, 0.2042, 0.2514



44.5292, 0.2011, 0.2440



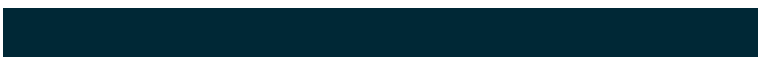
10.5630, 0.1625, 0.0997



16.4456, 0.2981, 0.3230



20.8587, 0.2016, 0.2459



1.7887, 0.2052, 0.2588

Inverse Universe

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



20.9912, 0.3904, 0.1954



25.0264, 0.3983, 0.1968



49.6469, 0.4658, 0.4640



15.2455, 0.3176, 0.3115



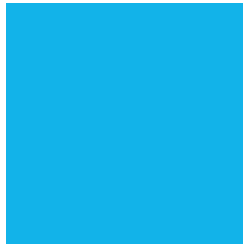
11.5985, 0.3963, 0.1957



0.9260, 0.3836, 0.1887

Previews

White Background



This preview shows how the Yxy color 38.2426, 0.2042, 0.2514 looks on a white background.

Color Contrast Check

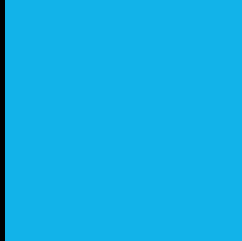
Large Text (above 18pt) WCAG AA × Fail

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 38.2426, 0.2042, 0.2514 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

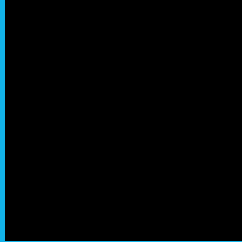
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

Yxy 38.2426, 0.2042, 0.2514

Background



This preview shows how black text looks on a background with the Yxy color 38.2426, 0.2042, 0.2514.



This preview shows how white text looks on a background with the Yxy color 38.2426, 0.2042, 0.2514.

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

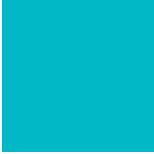
38.2520, 0.2042, 0.2514

Protanopia

37.8044, 0.2569, 0.2520

Deuteranopia

38.0686, 0.2402, 0.2342



Tritanopia

38.3582, 0.2185, 0.3067

Trichromacy



Original Color

38.2520, 0.2042, 0.2514



Protanomaly

36.5789, 0.2266, 0.2501



Deuteranomaly

36.8117, 0.2184, 0.2368



Tritanomaly

38.1978, 0.2127, 0.2845

Monochromacy



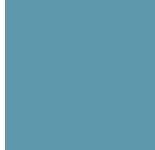
Original Color

38.2520, 0.2042, 0.2514



Achromatopsia

25.0158, 0.3127, 0.3290



Achromatomaly

27.8147, 0.2470, 0.2950

CSS Examples

Text

The CSS property to change the color of the text to Yxy 38.2426, 0.2042, 0.2514 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(18, 179, 233)` looks like.

```
.text, #text, p{  
  color:rgb(18, 179, 233)  
}
```

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(18, 179, 233) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 179, 233) }
```

Border

The CSS property to change the border of an element to Yxy 38.2426, 0.2042, 0.2514 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(18, 179, 233) }
```

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

```
.border{ border-color:rgb(18, 179, 233) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 179, 233)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 179, 233); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 179, 233);  
box-shadow:4px 4px 4px 4px rgb(18, 179,  
233) }
```


Background

The CSS property to change the background color of an element to Yxy 38.2426, 0.2042, 0.2514 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 179, 233) }
```

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

```
.background{ background-color: rgb(18, 179,  
233) }
```

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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