

Converting Colors

XYZ(12.7570, 17.2716, 83.4390)

Have a look what the booklet for
XYZ(12.7570, 17.2716, 83.4390)
contains.

XYZ(23.8201, 22.9481, 84.0629)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(23.8201, 22.9481,
84.0629)**

Conversions

Conversions Part 1

Format	Color
Hex	0085EE
RGB	0, 133, 238
RGB Percent	0%, 52%, 93%
CMY	0.9998, 0.4784, 0.0667
CMYK	1.00, 0.44, 0.00, 0.07
HSL	206°, 100%, 47%
HSV	206°, 100%, 93%
XYZ	23.8201, 22.9481, 84.0629
YIQ	105.2030, -112.9730, 4.4590

Conversions

Conversions Part 2

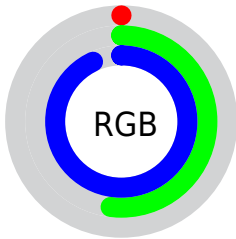
Format	Color
R _Y B	0, 85, 238
Decimal	34286
CIE Lab	55.02, 9.12, -61.03
CIE LCh	55, 61.707, 278.501
Yxy	22.9481, 0.1821, 0.1754
Android (android.graphics.Color)	4278224366 (0xFF0085EE)
YUV	105.2030, 65.4689, -92.2630
Hunter-Lab	47.9042, 4.9259, -70.5100

Details

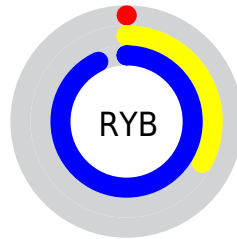
The XYZ color **23.8201, 22.9481, 84.0629** is a dark color, and the websafe version is hex **3399FF**. The color can be described as dark washed azure. A complement of this color would be **40.3182, 28.2929, 3.3378**, and the grayscale version is **13.3375, 14.0321, 15.2810**.

A 20% lighter version of the original color is **41.5833, 45.1061, 101.1224**, and **11.5890, 9.8332, 45.0033** is the 20% darker color. If you saturate the color by 10%, you get **23.8167, 22.9411, 84.0623**, and if you desaturate by 10%, it is **25.7043, 26.1620, 84.5845**.

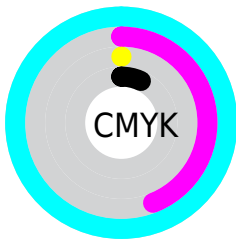
Distribution



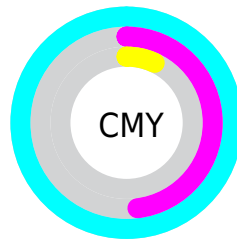
- Red (0%)
- Green (52%)
- Blue (93%)



- Red (0%)
- Yellow (33%)
- Blue (93%)



- Cyan (100%)
- Magenta (44%)
- Yellow (0%)
- Black (7%)



- Cyan (100%)
- Magenta (48%)
- Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.8201, 22.9481, 84.0629 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 XYZ color 23.8201, 22.9481, 84.0629 by changing the saturation by 10% instead.

■ 23.8201, 22.9481,
84.0629

■ 23.8201, 22.9481,
84.0629

264.3671,
267.4583, 528.5856

■ 15.3242, 14.5552,
62.5217

■ 49.1933, 48.3081,
140.9257

■ 9.1351, 8.5078,
45.0159

■ 66.8013, 66.0440,
177.0843

■ 4.8872, 4.4216,
31.1269

■ 88.1775, 87.6629,
218.9525

■ 2.2153, 1.9121,
20.4362

■ 113.6870,
113.5494, 266.9488

■ 0.7508, 0.5556,
12.5253

■ 143.6954,
144.0878, 321.4917

■ 0.0000, 0.0000,
6.9756

178.5680,

■ 0.0000, 0.0000,

179.6625, 382.9998

3.3686

218.6701,
220.6579, 451.8915

■ 0.0000, 0.0000,
1.2858

■ 0.0000, 0.0000,
0.0501

■ 23.8201, 22.9481,
84.0629

■ 23.8201, 22.9481,
84.0629

■ 23.8167, 22.9411,
84.0623

■ 25.7043, 26.1620,
84.5845

■ 28.1923, 29.9065,
85.1761

■ 31.4319, 34.2636,
85.8464

■ 35.5114, 39.2844,
86.6005

■ 40.5055, 45.0128,
87.4429

■ 46.4801, 51.4877,
88.3778

■ 53.4941, 58.7448,
89.4089

■ 61.6018, 66.8168,
90.5396

■ 70.8534, 75.7342,
91.7733

Harmonies

Analogous

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



17.3258, 22.9481, 79.1910



23.8201, 22.9481, 84.0629



31.0965, 22.9481, 67.7425

Triad

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



23.8201, 22.9481, 84.0629



33.8483, 22.9481, 8.0760



11.6967, 22.9481, 13.5418

Complementary

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



23.8201, 22.9481, 84.0629



40.3182, 28.2929, 3.3378

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.



14.5874, 22.9481, 5.5499



23.8201, 22.9481, 84.0629



27.0114, 22.9481, 3.7433

Square

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



23.8201, 22.9481, 84.0629



37.6306, 22.9481, 19.8078



19.9191, 22.9481, 3.1531



11.1940, 22.9481, 30.9974

Rectangle

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



23.8201, 22.9481, 84.0629



35.1021, 22.9481, 50.3770



19.9191, 22.9481, 3.1531



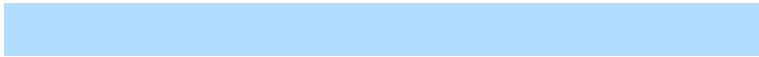
12.3870, 22.9481, 9.9901

Sweetspot

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



23.8211, 22.9488, 84.0635



62.4453, 68.5848, 104.5547



33.0321, 62.1325, 23.1280



12.5917, 13.8879, 22.2669



0.0000, 0.0000, 0.0000



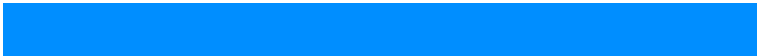
20.3446, 21.4041, 23.3091

Same Dimension

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



23.8211, 22.9488, 84.0635



27.7934, 26.7067, 98.2978



15.6176, 6.5418, 81.3290



15.6298, 16.6937, 20.1200



13.4184, 13.0610, 46.9417



1.2153, 1.2845, 3.9381

Inverse Universe

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



39.4945, 19.8721, 23.9447



46.1580, 23.2272, 27.8278



61.4184, 70.4933, 10.3712



16.1426, 15.9067, 18.3071



22.0986, 11.1119, 13.7017



1.8884, 0.9444, 1.4030

Previews

White Background



This preview shows how the XYZ color 23.8201, 22.9481, 84.0629 looks on a white background.

Color Contrast Check

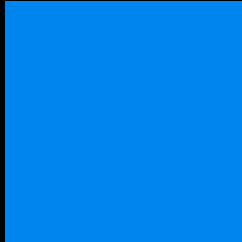
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 23.8201, 22.9481, 84.0629 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

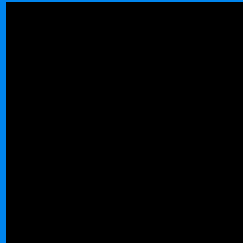
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

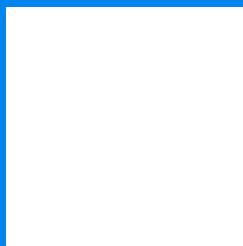
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 23.8201, 22.9481, 84.0629

Background



This preview shows how black text looks on a background with the XYZ color 23.8201, 22.9481, 84.0629.



This preview shows how white text looks on a background with the XYZ color 23.8201, 22.9481,

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

23.8201, 22.9481, 84.0629

Protanopia

25.6345, 22.7988, 79.3934

Deuteranopia

23.5279, 22.8312, 82.5237



Tritanopia

16.1953, 22.9243, 34.5816

Trichromacy



Original Color

23.8201, 22.9481, 84.0629

Protanomaly

24.1177, 22.3711, 80.8888

Deuteranomaly

23.6736, 22.8895, 83.2911

Tritanomaly

18.2818, 22.5525, 49.2885

Monochromacy



Original Color

23.8201, 22.9481, 84.0629

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

14.1952, 15.7547, 32.4298

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.8201, 22.9481, 84.0629 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(0, 133, 238)` looks like.

```
.text, #text, p{  
    color:rgb(0, 133, 238)  
}
```

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(0, 133, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 133, 238) }
```

Border

The CSS property to change the border of an element to XYZ 23.8201, 22.9481, 84.0629 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(0, 133, 238) }
```


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

```
.border{ border-color:rgb(0, 133, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 133, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 133, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 133, 238);  
box-shadow:4px 4px 4px 4px rgb(0, 133,  
238) }
```

Background

The CSS property to change the background color of an element to XYZ 23.8201, 22.9481, 84.0629 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 133, 238) }
```

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

```
.background{ background-color: rgb(0, 133,  
238) }
```

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