

Converting Colors

XYZ(23.8467, 18.8134, 96.9822)

Have a look what the booklet for
XYZ(23.8467, 18.8134, 96.9822)
contains.

XYZ(23.8442, 18.8083, 96.9814)	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(23.8442, 18.8083,
96.9814)**

Conversions

Conversions Part 1

Format	Color
Hex	0070FF
RGB	0, 112, 255
RGB Percent	0%, 44%, 100%
CMY	0.9997, 0.5608, 0.0000
CMYK	1.00, 0.56, 0.00, 0.00
HSL	214°, 100%, 50%
HSV	214°, 100%, 100%
XYZ	23.8442, 18.8083, 96.9814
YIQ	94.8140, -112.6550, 20.7290

Conversions

Conversions Part 2

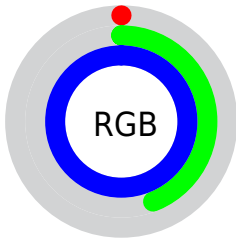
Format	Color
R _{YB}	0, 78, 255
Decimal	28927
CIE _{Lab}	50.46, 28.87, -77.84
CIE _{LCh}	50, 83.021, 290.349
Y _{xy}	18.8083, 0.1708, 0.1347
Android (android.graphics.Color)	4278219007 (0xFF0070FF)
Y _{UV}	94.8140, 78.9717, -83.1519
Hunter-Lab	43.3685, 22.2451, -102.2272

Details

The XYZ color **23.8442, 18.8083, 96.9814** is a dark color, and the websafe version is hex **0066FF**, and the color name is **brandeis blue**. The color can be described as dark saturated azure. A complement of this color would be **51.0752, 40.9298, 5.2106**, and the grayscale version is **10.6756, 11.2316, 12.2312**.

A 20% lighter version of the original color is **37.9572, 36.9251, 99.7344**, and **12.0263, 7.9276, 53.7197** is the 20% darker color. If you saturate the color by 10%, you get **23.8390, 18.7981, 96.9797**, and if you desaturate by 10%, it is **25.9652, 22.4337, 97.5694**.

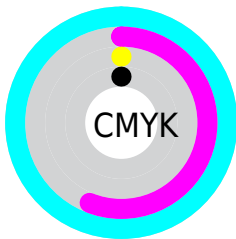
Distribution



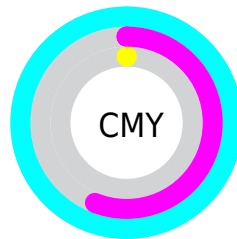
- Red (0%)
- Green (44%)
- Blue (100%)



- Red (0%)
- Yellow (31%)
- Blue (100%)



- Cyan (100%)
- Magenta (56%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (56%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.8442, 18.8083, 96.9814 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 23.8442, 18.8083, 96.9814 by changing the saturation by 10% instead.

■ 23.8442, 18.8083,
96.9814

■ 23.8442, 18.8083,
96.9814

264.4870,
245.3884, 571.6345

■ 15.3422, 11.5318,
73.1792

■ 49.2324, 41.4099,
159.0182

■ 9.1478, 6.4258,
53.6298

■ 66.8492, 57.5039,
198.0899

■ 4.8956, 3.1057,
37.9146

■ 88.2351, 77.3058,
243.0886

■ 2.2202, 1.1871,
25.6151

■ 113.7554,
101.2000, 294.4327

■ 0.7534, 0.0512,
16.3127

■ 143.7753,
129.5710, 352.5408

■ 0.0000, 0.0000,
9.5890

178.6603,

■ 0.0000, 0.0000,

162.8032, 417.8314

5.0253

218.7758,
201.2808, 490.7232

■ 0.0000, 0.0000,
2.2031

■ 0.0000, 0.0000,
0.6762

■ 23.8442, 18.8083,
96.9814

■ 23.8442, 18.8083,
96.9814

■ 23.8390, 18.7981,
96.9797

■ 25.9652, 22.4337,
97.5694

■ 28.8866, 26.8604,
98.2698

■ 32.7838, 32.1942,
99.0940

■ 37.7672, 38.5066,
100.0497

■ 43.9307, 45.8597,
101.1442

■ 51.3568, 54.3094,
102.3837

■ 60.1202, 63.9067,
103.7743

■ 70.2893, 74.6992,
105.3215

■ 81.9276, 86.7312,
107.0305

Harmonies

Analogous

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



15.3956, 18.8083, 103.1653



23.8442, 18.8083, 96.9814



32.7120, 18.8083, 64.0374

Triad

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



23.8442, 18.8083, 96.9814



29.7415, 18.8083, 1.7704



6.5152, 18.8083, 13.8864

Complementary

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



23.8442, 18.8083, 96.9814



51.0752, 40.9298, 5.2106

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.



8.3817, 18.8083, 3.1834



23.8442, 18.8083, 96.9814



20.6110, 18.8083, 0.3606

Square

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



23.8442, 18.8083, 96.9814



36.7671, 18.8083, 8.5729



12.9985, 18.8083, 0.6407



6.9054, 18.8083, 40.1842

Rectangle

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



23.8442, 18.8083, 96.9814



36.8719, 18.8083, 39.3913



12.9985, 18.8083, 0.6407



6.8711, 18.8083, 8.8610

Sweetspot

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



23.8451, 18.8087, 96.9814



60.0900, 63.8742, 103.7696



40.5158, 73.4224, 36.9584



12.0354, 12.7753, 22.0815



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.



23.8451, 18.8087, 96.9814



23.8390, 18.7981, 96.9797



18.2143, 7.3060, 95.0579



17.6592, 18.6900, 22.9267



12.5991, 10.1078, 50.7215



1.3333, 1.1973, 4.9741

Inverse Universe

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



44.1655, 22.4316, 17.3310



44.1620, 22.4288, 17.3173



72.4657, 90.4424, 13.6401



18.3406, 18.1196, 20.4109



23.1477, 11.7484, 9.4280



2.3076, 1.1654, 1.2012

Previews

White Background



This preview shows how the XYZ color 23.8442, 18.8083, 96.9814 looks on a white background.

Color Contrast Check

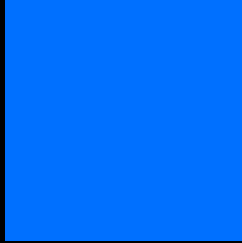
Large Text (above 18pt) WCAG AA ✓ Pass

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 23.8442, 18.8083, 96.9814 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

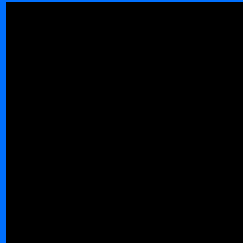
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

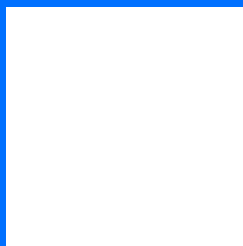
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 23.8442, 18.8083, 96.9814

Background



This preview shows how black text looks on a background with the XYZ color 23.8442, 18.8083, 96.9814.



This preview shows how white text looks on a background with the XYZ color 23.8442, 18.8083,

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

23.8442, 18.8083, 96.9814

Protanopia

22.4599, 18.7931, 88.0316

Deuteranopia

18.5924, 18.5722, 63.5776



Tritanopia

13.1952, 18.6981, 28.1129

Trichromacy



Original Color

23.8442, 18.8083, 96.9814

Protanomaly

22.9606, 18.8119, 91.2278

Deuteranomaly

20.2059, 18.4479, 74.4473

Tritanomaly

15.7771, 18.0446, 46.9074

Monochromacy



Original Color

23.8442, 18.8083, 96.9814

Achromatopsia

10.8771, 11.4435, 12.4620

Achromatomaly

12.2669, 12.5679, 31.9163

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.8442, 18.8083, 96.9814 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, 112, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 112, 255)  
}
```

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, 112, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 112, 255) }
```

Border

The CSS property to change the border of an element to XYZ 23.8442, 18.8083, 96.9814 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, 112, 255) }
```


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

```
.border{ border-color:rgb(0, 112, 255) }
```

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

Here you see how a box with a 4 pixel rgb(0, 112, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 112, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 112, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 112,  
255) }
```

Background

The CSS property to change the background color of an element to XYZ 23.8442, 18.8083, 96.9814 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 112, 255) }
```

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

```
.background{ background-color: rgb(0, 112,  
255) }
```

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