

# Converting Colors

XYZ(11.7715, 13.0433, 83.8798)

Have a look what the booklet for  
XYZ(11.7715, 13.0433, 83.8798)  
contains.

<b>XYZ(21.4851, 18.0422, 84.0115)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(21.4851, 18.0422,  
84.0115)**

# Conversions

## Conversions Part 1

Format	Color
Hex	0071EF
RGB	0, 113, 239
RGB Percent	0%, 44%, 94%
CMY	0.9997, 0.5569, 0.0627
CMYK	1.00, 0.53, 0.00, 0.06
HSL	212°, 100%, 47%
HSV	212°, 100%, 94%
XYZ	21.4851, 18.0422, 84.0115
YIQ	93.5770, -107.7940, 15.2300

# Conversions

## Conversions Part 2

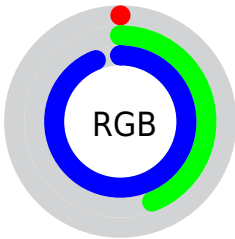
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 77, 239
Decimal	29167
CIE Lab	49.55, 22.05, -70.43
CIE LCh	50, 73.797, 287.385
Yxy	18.0422, 0.1739, 0.1460
Android (android.graphics.Color)	4278219247 (0xFF0071EF)
YUV	93.5770, 71.6935, -82.0670
Hunter-Lab	42.4761, 15.9550, -87.5336

# Details

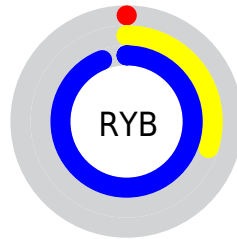
The XYZ color **21.4851, 18.0422, 84.0115** is a dark color, and the websafe version is hex **3366CC**. The color can be described as dark washed azure. A complement of this color would be **43.0666, 33.2899, 4.1576**, and the grayscale version is **10.3996, 10.9412, 11.9150**.

A 20% lighter version of the original color is **37.6321, 37.0221, 99.7703**, and **10.4507, 7.3917, 45.1319** is the 20% darker color. If you saturate the color by 10%, you get **21.4813, 18.0344, 84.0107**, and if you desaturate by 10%, it is **23.3662, 21.2463, 84.5313**.

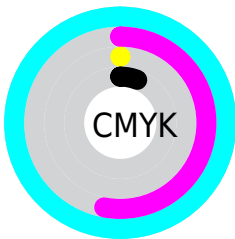
# Distribution



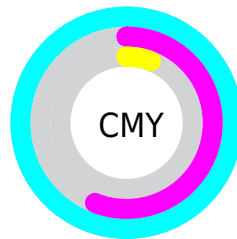
- Red (0%)
- Green (44%)
- Blue (94%)



- Red (0%)
- Yellow (30%)
- Blue (94%)



- Cyan (100%)
- Magenta (53%)
- Yellow (0%)
- Black (6%)



- Cyan (100%)
- Magenta (56%)
- Yellow (6%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.4851, 18.0422, 84.0115 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 21.4851, 18.0422, 84.0115 by changing the saturation by 10% instead.



■ 21.4851, 18.0422,  
84.0115

■ 21.4851, 18.0422,  
84.0115

252.5286,  
241.1088, 528.4105

■ 13.5935, 10.9803,  
62.4795

■ 45.3787, 40.1092,  
140.8531

■ 7.9183, 6.0536,  
44.9820

■ 62.1115, 55.8831,  
176.9998

■ 4.0941, 2.8777,  
31.1004

■ 82.5220, 75.3298,  
218.8552

■ 1.7555, 1.0682,  
20.4162

■ 106.9756, 98.8337,  
266.8377

■ 0.4906, 0.0000,  
12.5109

■ 135.8378,  
126.7791, 321.3660

■ 0.0000, 0.0000,  
6.9659

169.4737,

■ 0.0000, 0.0000,

159.5505, 382.8585

3.3626

208.2489,  
197.5323, 451.7338

■ 0.0000, 0.0000,  
1.2826

■ 0.0000, 0.0000,  
0.0475

■ 21.4851, 18.0422,  
84.0115

■ 21.4851, 18.0422,  
84.0115

■ 21.4813, 18.0344,  
84.0107

■ 23.3662, 21.2463,  
84.5313

■ 25.9109, 25.0935,  
85.1398

■ 29.2713, 29.6731,  
85.8466

■ 33.5398, 35.0425,  
86.6580

■ 38.7946, 41.2518,  
87.5796

■ 45.1050, 48.3459,  
88.6163

■ 52.5331, 56.3657,  
89.7728

■ 61.1363, 65.3494,  
91.0533

■ 70.9674, 75.3324,  
92.4621

# Harmonies

## Analogous

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



14.3781, 18.0422, 86.2146



21.4851, 18.0422, 84.0115



29.0602, 18.0422, 58.9191

# Triad

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



21.4851, 18.0422, 84.0115



27.9505, 18.0422, 2.7534



7.0939, 18.0422, 12.3817

# Complementary

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



21.4851, 18.0422, 84.0115



43.0666, 33.2899, 4.1576

# 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.



9.0387, 18.0422, 3.4109



21.4851, 18.0422, 84.0115



20.2539, 18.0422, 0.9376

# Square

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



21.4851, 18.0422, 84.0115



33.4344, 18.0422, 10.2438



13.4387, 18.0422, 1.0512



7.2558, 18.0422, 33.5331



# Rectangle

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



21.4851, 18.0422, 84.0115



32.7842, 18.0422, 38.4704



13.4387, 18.0422, 1.0512



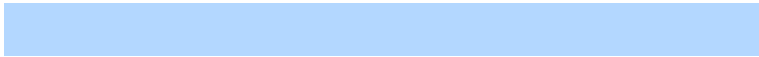
7.4947, 18.0422, 8.2513

# Sweetspot

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



21.4860, 18.0426, 84.0120



60.7385, 65.1711, 103.9858



34.4751, 63.1768, 29.2859



12.1881, 13.0806, 22.1324



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.



21.4860, 18.0426, 84.0120



24.8300, 20.7800, 97.3100



15.6315, 6.2596, 82.0462



15.5134, 16.4609, 20.0812



12.0002, 10.2247, 46.4689



1.0972, 1.0484, 3.8987



# Inverse Universe

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



38.5782, 19.5445, 17.3619



44.6622, 22.6289, 19.9513



65.1341, 79.3988, 11.8945



16.0838, 15.8832, 17.9977



21.3828, 10.8255, 9.9322



1.8288, 0.9205, 1.0891



# Previews

## White Background



This preview shows how the XYZ color 21.4851, 18.0422, 84.0115 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 XYZ color 21.4851, 18.0422, 84.0115 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

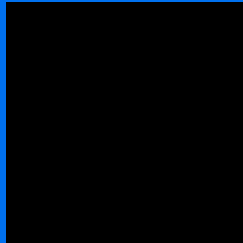
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

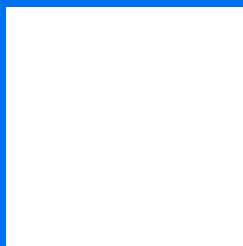
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 21.4851, 18.0422, 84.0115**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.4851, 18.0422, 84.0115.



This preview shows how white text looks on a background with the XYZ color 21.4851, 18.0422,



# 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

21.4851, 18.0422, 84.0115

### Protanopia

21.7346, 18.1708, 84.0231

### Deuteranopia

17.9790, 17.9379, 61.5463



## Tritanopia

12.5701, 17.8002, 26.8180

# Trichromacy



## Original Color

21.4851, 18.0422, 84.0115

## Protanomaly

21.6231, 18.1134, 84.0179

## Deuteranomaly

19.1475, 17.8371, 69.4515

## Tritanomaly

14.9455, 17.5104, 43.1496

# Monochromacy



## Original Color

21.4851, 18.0422, 84.0115

## Achromatopsia

10.6392, 11.1932, 12.1894

## Achromatomaly

11.7836, 12.3746, 29.3712

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.4851, 18.0422, 84.0115 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, 113, 239)` looks like.

```
.text, #text, p{  
    color:rgb(0, 113, 239)  
}
```

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, 113, 239) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 113, 239) }
```

## Border

The CSS property to change the border of an element to XYZ 21.4851, 18.0422, 84.0115 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, 113, 239) }
```



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

```
.border{ border-color:rgb(0, 113, 239) }
```

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

Here you see how a box with a 4 pixel rgb(0, 113, 239) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 113, 239); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 113, 239);  
box-shadow:4px 4px 4px 4px rgb(0, 113,  
239) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.4851, 18.0422, 84.0115 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 113, 239) }
```

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

```
.background{ background-color: rgb(0, 113,  
239) }
```

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