

# Converting Colors

XYZ(22.3760, 20.9897, 80.7150)

Have a look what the booklet for  
XYZ(22.3760, 20.9897, 80.7150)  
contains.

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# Color

**XYZ(22.3121, 20.8622,  
80.6927)**

# Conversions

## Conversions Part 1

Format	Color
Hex	007EEA
RGB	0, 126, 234
RGB Percent	0%, 49%, 92%
CMY	0.9998, 0.5059, 0.0824
CMYK	1.00, 0.46, 0.00, 0.08
HSL	208°, 100%, 46%
HSV	208°, 100%, 92%
XYZ	22.3121, 20.8622, 80.6927
YIQ	100.6380, -109.7640, 6.8760

# Conversions

## Conversions Part 2

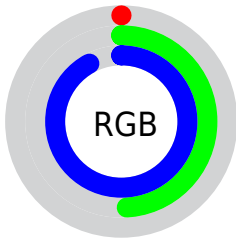
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	0, 82, 234
Decimal	32490
CIE <sub>Lab</sub>	52.80, 11.90, -62.37
CIE <sub>LCh</sub>	53, 63.496, 280.798
Y <sub>xy</sub>	20.8622, 0.1801, 0.1684
Android (android.graphics.Color)	4278222570 (0xFF007EEA)
YUV	100.6380, 65.7475, -88.2595
Hunter-Lab	45.6752, 7.2649, -72.7730

# Details

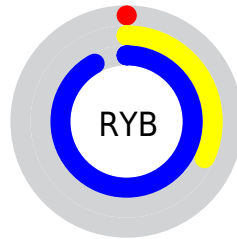
The XYZ color **22.3121, 20.8622, 80.6927** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark washed azure. A complement of this color would be **39.3012, 28.2306, 3.3794**, and the grayscale version is **12.1381, 12.7702, 13.9068**.

A 20% lighter version of the original color is **40.0338, 42.1866, 100.6406**, and **10.6602, 8.6231, 42.6975** is the 20% darker color. If you saturate the color by 10%, you get **22.3087, 20.8552, 80.6920**, and if you desaturate by 10%, it is **24.1331, 23.9636, 81.1959**.

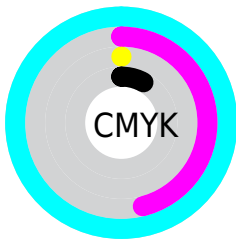
# Distribution



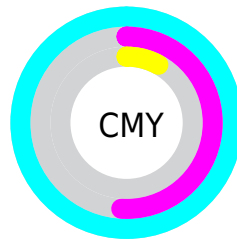
- Red (0%)
- Green (49%)
- Blue (92%)



- Red (0%)
- Yellow (32%)
- Blue (92%)



- Cyan (100%)
- Magenta (46%)
- Yellow (0%)
- Black (8%)



- Cyan (100%)
- Magenta (51%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.3121, 20.8622, 80.6927 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 22.3121, 20.8622, 80.6927 by changing the saturation by 10% instead.



■ 22.3121, 20.8622,  
80.6927

■ 22.3121, 20.8622,  
80.6927

256.7737,  
256.5453, 517.0324

■ 14.2043, 13.0233,  
59.7590

■ 46.7363, 44.8581,  
136.1594

■ 8.3455, 7.4446,  
42.8004

■ 63.7834, 61.7839,  
171.5295

■ 4.3705, 3.7417,  
29.3983

■ 84.5410, 82.5074,  
212.5488

■ 1.9138, 1.5301,  
19.1342

■ 109.3745,  
107.4131, 259.6358

■ 0.5848, 0.3098,  
11.5895

■ 138.6491,  
136.8853, 313.2092

■ 0.0000, 0.0000,  
6.3457

172.7303,

■ 0.0000, 0.0000,

171.3085, 373.6874

2.9842

211.9833,  
211.0670, 441.4889

■ 0.0000, 0.0000,  
1.0866

■ 0.0000, 0.0000,  
0.0000

■ 22.3121, 20.8622,  
80.6927

■ 22.3121, 20.8622,  
80.6927

■ 22.3087, 20.8552,  
80.6920

■ 24.1331, 23.9636,  
81.1959

■ 26.5455, 27.5980,  
81.7702

■ 29.6927, 31.8458,  
82.4243

■ 33.6601, 36.7571,  
83.1631

■ 38.5199, 42.3751,  
83.9914

■ 44.3354, 48.7381,  
84.9130

■ 51.1640, 55.8813,  
85.9319

■ 59.0582, 63.8370,  
87.0515

■ 68.0664, 72.6355,  
88.2750

# Harmonies

## Analogous

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



15.9276, 20.8622, 77.5138



22.3121, 20.8622, 80.6927



29.3700, 20.8622, 63.0330

# Triad

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



22.3121, 20.8622, 80.6927



31.1188, 20.8622, 6.2451



10.0686, 20.8622, 12.7057

# Complementary

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



22.3121, 20.8622, 80.6927



39.3012, 28.2306, 3.3794

# 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.



12.6165, 20.8622, 4.7792



22.3121, 20.8622, 80.6927



24.3203, 20.8622, 2.7464

# Square

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



22.3121, 20.8622, 80.6927



35.1568, 20.8622, 16.5439



17.5371, 20.8622, 2.4218



9.7642, 20.8622, 30.2575



# Rectangle

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



22.3121, 20.8622, 80.6927



33.1549, 20.8622, 45.5663



17.5371, 20.8622, 2.4218



10.6591, 20.8622, 9.1611

# Sweetspot

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



22.3131, 20.8628, 80.6933



62.0352, 67.7645, 104.4180



31.9907, 59.8732, 23.3253



12.4945, 13.6934, 22.2345



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.



22.3131, 20.8628, 80.6933



27.0351, 25.1903, 98.0450



14.9807, 6.1980, 78.2492



14.9029, 15.8922, 19.2043



12.6636, 11.9742, 45.3868



1.0905, 1.1325, 3.5960



# Inverse Universe

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



37.6985, 19.0002, 21.4193



45.7753, 23.0741, 25.8125



60.1342, 69.8967, 10.3237



15.4045, 15.1897, 17.4156



21.2473, 10.7016, 12.3695



1.7169, 0.8597, 1.2267



# Previews

## White Background



This preview shows how the XYZ color 22.3121, 20.8622, 80.6927 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 22.3121, 20.8622, 80.6927 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

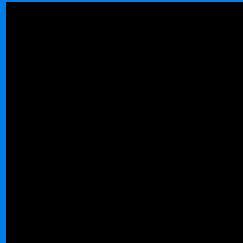
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

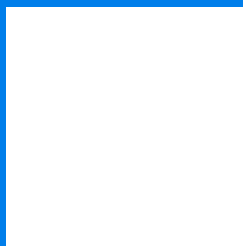
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 22.3121, 20.8622, 80.6927**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.3121, 20.8622, 80.6927.



This preview shows how white text looks on a background with the XYZ color 22.3121, 20.8622,



# 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

22.3121, 20.8622, 80.6927

### Protanopia

23.8410, 20.9718, 77.6543

### Deuteranopia

21.3098, 20.8746, 74.1402



## Tritanopia

14.6574, 20.6352, 31.6442

# Trichromacy



## Original Color

22.3121, 20.8622, 80.6927

## Protanomaly

22.5890, 20.4933, 78.3663

## Deuteranomaly

21.5930, 20.7802, 76.2717

## Tritanomaly

16.7633, 20.3455, 46.2236

# Monochromacy



## Original Color

22.3121, 20.8622, 80.6927

## Achromatopsia

12.3695, 13.0136, 14.1719

## Achromatomaly

13.1151, 14.4118, 30.5243

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.3121, 20.8622, 80.6927 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, 126, 234)` looks like.

```
.text, #text, p{  
    color:rgb(0, 126, 234)  
}
```

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, 126, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 126, 234) }
```

## Border

The CSS property to change the border of an element to XYZ 22.3121, 20.8622, 80.6927 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, 126, 234) }
```



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

```
.border{ border-color:rgb(0, 126, 234) }
```

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

Here you see how a box with a 4 pixel rgb(0, 126, 234) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 126, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 126, 234);  
box-shadow:4px 4px 4px 4px rgb(0, 126,  
234) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.3121, 20.8622, 80.6927 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 126, 234) }
```

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

```
.background{ background-color: rgb(0, 126,  
234) }
```

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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