

Converting Colors

XYZ(12.2020, 4.1331, 69.8784)

Have a look what the booklet for
XYZ(12.2020, 4.1331, 69.8784)
contains.

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Color

**XYZ(13.3193, 5.3277,
70.1384)**

Conversions

Conversions Part 1

Format	Color
Hex	0000DF
RGB	0, 0, 223
RGB Percent	0%, 0%, 87%
CMY	0.9998, 1.0000, 0.1255
CMYK	1.00, 1.00, 0.00, 0.13
HSL	240°, 100%, 44%
HSV	240°, 100%, 87%
XYZ	13.3193, 5.3277, 70.1384
YIQ	25.4220, -71.5830, 69.3530

Conversions

Conversions Part 2

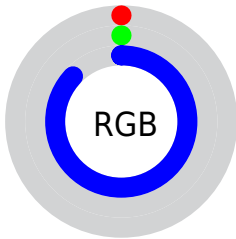
Format	Color
RYB	0, 0, 223
Decimal	223
CIELab	27.65, 71.57, -97.47
CIELCh	28, 120.923, 306.287
Yxy	5.3277, 0.1500, 0.0600
Android (android.graphics.Color)	4278190303 (0xFF0000DF)
YUV	25.4220, 97.4060, -22.2951
Hunter-Lab	23.0818, 62.6098, -164.0065

Details

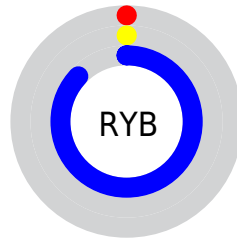
The XYZ color **13.3193, 5.3277, 70.1384** is a dark color, and the websafe version is hex **0000CC**. The color can be described as dark washed blue. A complement of this color would be **56.8013, 68.4543, 10.2193**, and the grayscale version is **0.8985, 0.9453, 1.0294**.

A 20% lighter version of the original color is **26.6803, 14.5612, 96.0121**, and **6.8829, 2.7532, 36.2450** is the 20% darker color. If you saturate the color by 10%, you get **13.3201, 5.3281, 70.1387**, and if you desaturate by 10%, it is **13.9507, 6.0877, 70.2521**.

Distribution



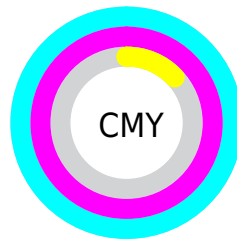
- Red (0%)
- Green (0%)
- Blue (87%)



- Red (0%)
- Yellow (0%)
- Blue (87%)



- Cyan (100%)
- Magenta (100%)
- Yellow (0%)
- Black (13%)



- Cyan (100%)
- Magenta (100%)
- Yellow (13%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 13.3193, 5.3277, 70.1384 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 13.3193, 5.3277, 70.1384 by changing the saturation by 10% instead.

■ 13.3193, 5.3277,
70.1384

■ 13.3193, 5.3277,
70.1384

206.5505,
152.9397, 479.8381

■ 7.7273, 2.4408,
51.1619

■ 31.4727, 16.5194,
121.0891

■ 3.9713, 0.8468,
35.9598

■ 44.7648, 25.5930,
153.9003

■ 1.6859, 0.0000,
24.1137

■ 61.3543, 37.4976,
192.1602

■ 0.4474, 0.0000,
15.2050

■ 81.6066, 52.6176,
236.2872

■ 0.0000, 0.0000,
8.8152

■ 105.8870, 71.3374,
286.7000


■ 0.0000, 0.0000,
4.5257


■ 134.5609, 94.0415,

■ 0.0000, 0.0000,


343.8170


1.9179


 167.9936,
121.1141, 408.0569


 0.0000, 0.0000,
0.5041

 0.0000, 0.0000,
0.0000


 13.3193, 5.3277,
70.1384


 13.3193, 5.3277,
70.1384

 13.3201, 5.3281,
70.1387

 13.9507, 6.0877,
70.2521

 15.3092, 7.7240,
70.4963

 17.6313, 10.5214,
70.9139

 21.0508, 14.6414,
71.5289

■ 25.6809, 20.2200,
72.3616

■ 31.6203, 27.3766,
73.4299

■ 38.9577, 36.2180,
74.7498

■ 47.7743, 46.8418,
76.3357

■ 58.1447, 59.3383,
78.2012

Harmonies

Analogous

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



6.2101, 5.3277, 101.6230



13.3193, 5.3277, 70.1384



20.2960, 5.3277, 25.8782

Triad

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



13.3193, 5.3277, 70.1384



10.0928, 5.3277, 0.0000



0.0000, 5.3277, 9.4338

Complementary

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



13.3193, 5.3277, 70.1384



56.8013, 68.4543, 10.2193

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.



0.2066, 5.3277, 0.0000



13.3193, 5.3277, 70.1384



4.0680, 5.3277, 0.0000

Square

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



13.3193, 5.3277, 70.1384



17.7157, 5.3277, 0.0000



1.2046, 5.3277, 0.0000



0.5298, 5.3277, 43.0776

Rectangle

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



13.3193, 5.3277, 70.1384



22.3926, 5.3277, 7.8066



1.2046, 5.3277, 0.0000



0.0000, 5.3277, 4.1721

Sweetspot

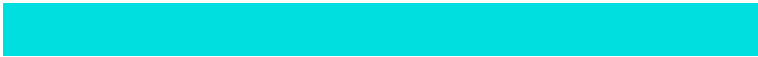
The Sweet Spot groups the original color and five complimentary colors.



13.3201, 5.3281, 70.1387



52.5497, 48.7867, 101.2549



39.7071, 58.1033, 78.9346



10.2967, 9.2963, 21.5016



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.



13.3201, 5.3281, 70.1387



18.0508, 7.2204, 95.0500



19.9380, 8.7398, 70.4484



12.9524, 13.2435, 17.2613



7.8321, 3.1329, 41.2403



0.5430, 0.2172, 2.8586

Inverse Universe

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



43.7430, 21.0126, 71.5213



59.2792, 28.4757, 96.9232



33.0064, 56.1876, 9.1057



14.2949, 13.9356, 17.3232



25.7201, 12.3551, 42.0536



1.7828, 0.8564, 2.9152

Previews

White Background



This preview shows how the XYZ color 13.3193, 5.3277, 70.1384 looks on a white background.

Color Contrast Check

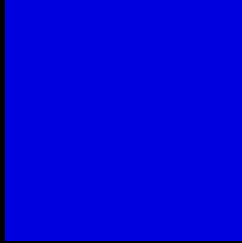
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the XYZ color 13.3193, 5.3277, 70.1384 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

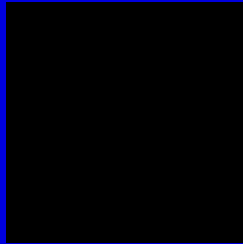
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 13.3193, 5.3277, 70.1384

Background



This preview shows how black text looks on a background with the XYZ color 13.3193, 5.3277, 70.1384.



This preview shows how white text looks on a background with the XYZ color 13.3193, 5.3277,

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

13.3193, 5.3277, 70.1384

Protanopia

6.3342, 5.5582, 24.0315

Deuteranopia

5.3425, 5.6413, 17.3303



Tritanopia

3.8912, 5.5822, 8.0801

Trichromacy



Original Color

13.3193, 5.3277, 70.1384

Protanomaly

7.8608, 4.4130, 37.4833

Deuteranomaly

6.8548, 4.2433, 31.4681

Tritanomaly

5.1537, 3.7526, 21.9254

Monochromacy



Original Color

13.3193, 5.3277, 70.1384

Achromatopsia

0.9240, 0.9721, 1.0586

Achromatomaly

2.5566, 1.3438, 11.4339

CSS Examples

Text

The CSS property to change the color of the text to XYZ 13.3193, 5.3277, 70.1384 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, 0, 223)` looks like.

```
.text, #text, p{  
    color:rgb(0, 0, 223)  
}
```

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, 0, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 0, 223) }
```

Border

The CSS property to change the border of an element to XYZ 13.3193, 5.3277, 70.1384 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, 0, 223) }
```


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

```
.border{ border-color:rgb(0, 0, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 0, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 0, 223); -webkit-box-shadow:4px  
4px 4px 4px rgb(0, 0, 223); box-shadow:4px  
4px 4px 4px rgb(0, 0, 223) }
```

Background

The CSS property to change the background color of an element to XYZ 13.3193, 5.3277, 70.1384 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 0, 223) }
```

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

```
.background{ background-color: rgb(0, 0,  
223) }
```

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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