

Converting Colors

XYZ(20.9096, 12.9391, 96.0032)

Have a look what the booklet for
XYZ(20.9096, 12.9391, 96.0032)
contains.

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Color

**XYZ(20.9187, 12.9573,
96.0062)**

Conversions

Conversions Part 1

Format	Color
Hex	0050FF
RGB	0, 80, 255
RGB Percent	0%, 31%, 100%
CMY	0.9997, 0.6863, 0.0000
CMYK	1.00, 0.69, 0.00, 0.00
HSL	221°, 100%, 50%
HSV	221°, 100%, 100%
XYZ	20.9187, 12.9573, 96.0062
YIQ	76.0300, -103.8550, 37.4650

Conversions

Conversions Part 2

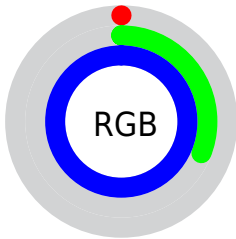
Format	Color
RYB	0, 61, 255
Decimal	20735
CIELab	42.70, 48.87, -90.58
CIELCh	43, 102.920, 298.348
Yxy	12.9573, 0.1611, 0.0998
Android (android.graphics.Color)	4278210815 (0xFF0050FF)
YUV	76.0300, 88.2322, -66.6783
Hunter-Lab	35.9962, 40.7393, -132.9360

Details

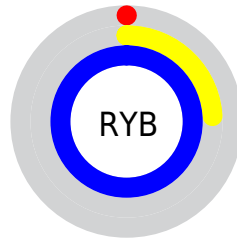
The XYZ color **20.9187, 12.9573, 96.0062** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark saturated blue. A complement of this color would be **56.5869, 51.9531, 7.0478**, and the grayscale version is **6.7371, 7.0879, 7.7187**.

A 20% lighter version of the original color is **33.1027, 26.6335, 98.0038**, and **10.7089, 5.2930, 53.2805** is the 20% darker color. If you saturate the color by 10%, you get **20.9143, 12.9487, 96.0048**, and if you desaturate by 10%, it is **22.7867, 16.0768, 96.5099**.

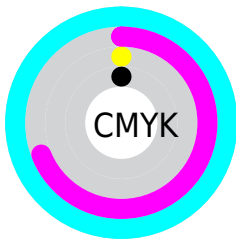
Distribution



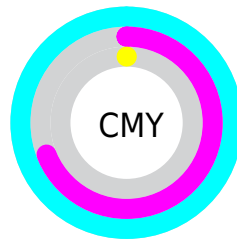
- Red (0%)
- Green (31%)
- Blue (100%)



- Red (0%)
- Yellow (24%)
- Blue (100%)



- Cyan (100%)
- Magenta (69%)
- Yellow (0%)
- Black (0%)



- Cyan (100%)
- Magenta (69%)
- Yellow (0%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.9187, 12.9573, 96.0062 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 20.9187, 12.9573, 96.0062 by changing the saturation by 10% instead.

■ 20.9187, 12.9573,
96.0062

■ 20.9187, 12.9573,
96.0062

249.5860,
210.6438, 568.4476

■ 13.1767, 7.3991,
72.3712

■ 44.4445, 31.2271,
157.6615

■ 7.6282, 3.7130,
52.9733

■ 60.9590, 44.7074,
196.5189

■ 3.9078, 1.5143,
37.3939

■ 81.1284, 61.5974,
241.2875

■ 1.6501, 0.2988,
25.2144

■ 105.3180, 82.2812,
292.3858

■ 0.4247, 0.0000,
16.0164

■ 133.8932,
107.1434, 350.2325

■ 0.0000, 0.0000,
9.3813

167.2194,

■ 0.0000, 0.0000,

136.5683, 415.2460

4.8905

205.6619,
170.9403, 487.8449

■ 0.0000, 0.0000,
2.1255

■ 0.0000, 0.0000,
0.6309

■ 20.9187, 12.9573,
96.0062

■ 20.9187, 12.9573,
96.0062

■ 20.9143, 12.9487,
96.0048

■ 22.7867, 16.0768,
96.5099

■ 25.5511, 20.1895,
97.1580

■ 29.3982, 25.4230,
97.9654

■ 34.4485, 31.8689,
98.9434

■ 40.8047, 39.6077,
100.1021

■ 48.5581, 48.7119,
101.4508

■ 57.7910, 59.2482,
102.9979

■ 68.5792, 71.2787,
104.7514

■ 80.9929, 84.8615,
106.7189

Harmonies

Analogous

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



11.8872, 12.9573, 115.6868



20.9187, 12.9573, 96.0062



30.0503, 12.9573, 50.8930

Triad

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



20.9187, 12.9573, 96.0062



22.0055, 12.9573, 0.0000



2.5732, 12.9573, 12.9033

Complementary

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



20.9187, 12.9573, 96.0062



56.5869, 51.9531, 7.0478

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.



3.4407, 12.9573, 1.4309



20.9187, 12.9573, 96.0062



12.7540, 12.9573, 0.0000

Square

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



20.9187, 12.9573, 96.0062



30.8426, 12.9573, 1.9511



6.4690, 12.9573, 0.0000



3.2588, 12.9573, 46.0025

Rectangle

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



20.9187, 12.9573, 96.0062



33.6777, 12.9573, 24.7094



6.4690, 12.9573, 0.0000



2.6816, 12.9573, 7.0783

Sweetspot

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



20.9195, 12.9575, 96.0062



57.7589, 59.2120, 102.9926



43.4279, 74.5873, 52.2935



11.4903, 11.6851, 21.8998



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.



20.9195, 12.9575, 96.0062



20.9143, 12.9487, 96.0048



19.2148, 7.8218, 95.1048



17.4676, 18.3068, 22.8629



11.0451, 6.9997, 50.2035



1.1682, 0.8671, 4.9191

Inverse Universe

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



42.6888, 21.8409, 9.5547



42.6858, 21.8383, 9.5434



61.8475, 84.9685, 13.1432



18.2439, 18.0809, 19.9016



22.3632, 11.4346, 5.2973



2.2243, 1.1321, 0.7624

Previews

White Background



This preview shows how the XYZ color 20.9187, 12.9573, 96.0062 looks on a white background.

Color Contrast Check

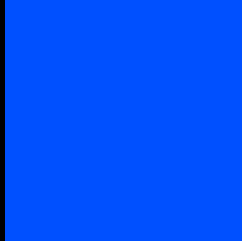
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.9187, 12.9573, 96.0062 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

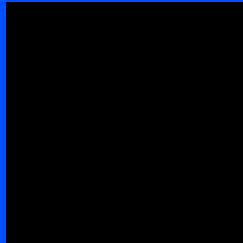
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.9187, 12.9573, 96.0062

Background



This preview shows how black text looks on a background with the XYZ color 20.9187, 12.9573, 96.0062.



This preview shows how white text looks on a background with the XYZ color 20.9187, 12.9573,

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

20.9187, 12.9573, 96.0062

Protanopia

14.9624, 12.6775, 58.1583

Deuteranopia

12.3931, 12.7176, 41.3367



Tritanopia

8.8953, 12.6532, 18.8031

Trichromacy



Original Color

20.9187, 12.9573, 96.0062

Protanomaly

16.8410, 12.5863, 70.6490

Deuteranomaly

14.8717, 12.4962, 58.1281

Tritanomaly

11.5322, 11.9044, 38.2492

Monochromacy



Original Color

20.9187, 12.9573, 96.0062

Achromatopsia

6.8694, 7.2272, 7.8704

Achromatomaly

8.6805, 7.8592, 26.2588

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.9187, 12.9573, 96.0062 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, 80, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 80, 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, 80, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 80, 255) }
```

Border

The CSS property to change the border of an element to XYZ 20.9187, 12.9573, 96.0062 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, 80, 255) }
```


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

```
.border{ border-color:rgb(0, 80, 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, 80, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 80, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 80, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 80, 255)  
}
```

Background

The CSS property to change the background color of an element to XYZ 20.9187, 12.9573, 96.0062 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 80, 255) }
```

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

```
.background{ background-color: rgb(0, 80,  
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](#).

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