

Converting Colors

XYZ(20.8560, 12.8321, 95.9853)

Have a look what the booklet for
XYZ(20.8560, 12.8321, 95.9853)
contains.

XYZ(20.8460, 12.8120, 95.9820)	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(20.8460, 12.8120,
95.9820)**

Conversions

Conversions Part 1

Format	Color
Hex	004FFF
RGB	0, 79, 255
RGB Percent	0%, 31%, 100%
CMY	0.9997, 0.6902, 0.0000
CMYK	1.00, 0.69, 0.00, 0.00
HSL	221°, 100%, 50%
HSV	221°, 100%, 100%
XYZ	20.8460, 12.8120, 95.9820
YIQ	75.4430, -103.5800, 37.9880

Conversions

Conversions Part 2

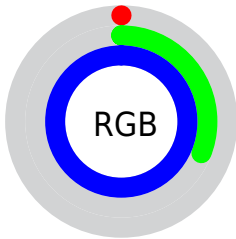
Format	Color
RYB	0, 60, 255
Decimal	20479
CIELab	42.48, 49.47, -90.94
CIELCh	42, 103.525, 298.544
Yxy	12.8120, 0.1608, 0.0988
Android (android.graphics.Color)	4278210559 (0xFF004FFF)
YUV	75.4430, 88.5216, -66.1635
Hunter-Lab	35.7939, 41.3175, -133.9317

Details

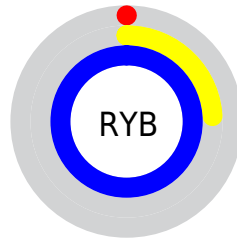
The XYZ color **20.8460, 12.8120, 95.9820** is a dark color, and the websafe version is hex **0033CC**. The color can be described as dark saturated blue. A complement of this color would be **56.7811, 52.3416, 7.1124**, and the grayscale version is **6.6305, 6.9758, 7.5966**.

A 20% lighter version of the original color is **32.9716, 26.3713, 97.9601**, and **10.6791, 5.2333, 53.2706** is the 20% darker color. If you saturate the color by 10%, you get **20.8420, 12.8041, 95.9807**, and if you desaturate by 10%, it is **22.7034, 15.9103, 96.4821**.

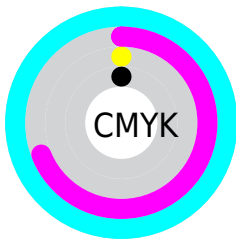
Distribution



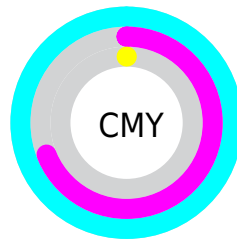
- Red (0%)
- Green (31%)
- Blue (100%)



- 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 20.8460, 12.8120, 95.9820 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 20.8460, 12.8120, 95.9820 by changing the saturation by 10% instead.

■ 20.8460, 12.8120,
95.9820

■ 20.8460, 12.8120,
95.9820

249.2062,
209.7093, 568.3684

■ 13.1233, 7.2992,
72.3512

■ 44.3243, 30.9656,
157.6278

■ 7.5911, 3.6499,
52.9570

■ 60.8106, 44.3752,
196.4799

■ 3.8840, 1.4797,
37.3810

■ 80.9488, 61.1859,
241.2428

■ 1.6367, 0.2744,
25.2045

■ 105.1043, 81.7821,
292.3350

■ 0.4162, 0.0000,
16.0091

■ 133.6425,
106.5481, 350.1752

■ 0.0000, 0.0000,
9.3761

166.9286,

■ 0.0000, 0.0000,

135.8684, 415.1817

4.8872

205.3280,
170.1273, 487.7733

■ 0.0000, 0.0000,
2.1236

■ 0.0000, 0.0000,
0.6298

■ 20.8460, 12.8120,
95.9820

■ 20.8460, 12.8120,
95.9820

■ 20.8420, 12.8041,
95.9807

■ 22.7034, 15.9103,
96.4821

■ 25.4600, 20.0076,
97.1277

■ 29.3026, 25.2324,
97.9337

■ 34.3521, 31.6772,
98.9115

■ 40.7118, 39.4231,
100.0714

■ 48.4731, 48.5434,
101.4227

■ 57.7186, 59.1053,
102.9741

■ 68.5244, 71.1715,
104.7336

■ 80.9611, 84.8006,
106.7088

Harmonies

Analogous

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



11.8001, 12.8120, 116.0865



20.8460, 12.8120, 95.9820



29.9845, 12.8120, 50.5354

Triad

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



20.8460, 12.8120, 95.9820



21.8053, 12.8120, 0.0000



2.4936, 12.8120, 12.8865

Complementary

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



20.8460, 12.8120, 95.9820



56.7811, 52.3416, 7.1124

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.



3.3388, 12.8120, 1.3952



20.8460, 12.8120, 95.9820



12.5627, 12.8120, 0.0000

Square

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



20.8460, 12.8120, 95.9820



30.6851, 12.8120, 1.8437



6.3229, 12.8120, 0.0000



3.1804, 12.8120, 46.2046

Rectangle

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



20.8460, 12.8120, 95.9820



33.5962, 12.8120, 24.3436



6.3229, 12.8120, 0.0000



2.5972, 12.8120, 7.0376

Sweetspot

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



20.8468, 12.8121, 95.9820



57.6887, 59.0715, 102.9692



43.4277, 74.5872, 52.2926



11.4740, 11.6525, 21.8944



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.



20.8468, 12.8121, 95.9820



20.8420, 12.8041, 95.9807



19.2145, 7.8215, 95.1047



17.4617, 18.2950, 22.8609



11.0062, 6.9221, 50.1906



1.1638, 0.8584, 4.9176

Inverse Universe

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



42.6520, 21.8261, 9.3616



42.6493, 21.8237, 9.3512



61.8471, 84.9684, 13.1430



18.2409, 18.0797, 19.8859



22.3436, 11.4267, 5.1941



2.2221, 1.1312, 0.7508

Previews

White Background



This preview shows how the XYZ color 20.8460, 12.8120, 95.9820 looks on a white background.

Color Contrast Check

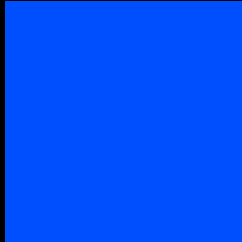
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.8460, 12.8120, 95.9820 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

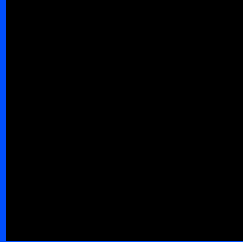
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.8460, 12.8120, 95.9820

Background



This preview shows how black text looks on a background with the XYZ color 20.8460, 12.8120, 95.9820.



This preview shows how white text looks on a background with the XYZ color 20.8460, 12.8120,

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

20.8460, 12.8120, 95.9820

Protanopia

14.8435, 12.6300, 57.5326

Deuteranopia

12.1978, 12.4813, 40.7960



Tritanopia

8.8368, 12.6298, 18.4950

Trichromacy



Original Color

20.8460, 12.8120, 95.9820

Protanomaly

16.7073, 12.5328, 69.9451

Deuteranomaly

14.6634, 12.2697, 57.4726

Tritanomaly

11.4369, 11.7137, 38.2174

Monochromacy



Original Color

20.8460, 12.8120, 95.9820

Achromatopsia

6.6877, 7.0360, 7.6622

Achromatomaly

8.5370, 7.6907, 25.8455

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.8460, 12.8120, 95.9820 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, 79, 255)` looks like.

```
.text, #text, p{  
    color:rgb(0, 79, 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, 79, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 79, 255) }
```

Border

The CSS property to change the border of an element to XYZ 20.8460, 12.8120, 95.9820 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, 79, 255) }
```


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

```
.border{ border-color:rgb(0, 79, 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, 79, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 79, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 79, 255);  
box-shadow:4px 4px 4px 4px rgb(0, 79, 255)  
}
```

Background

The CSS property to change the background color of an element to XYZ 20.8460, 12.8120, 95.9820 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 79, 255) }
```

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

```
.background{ background-color: rgb(0, 79,  
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