

Converting Colors

XYZ(19.8575, 11.7399, 80.5776)

Have a look what the booklet for
XYZ(19.8575, 11.7399, 80.5776)
contains.

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Color

**XYZ(19.8563, 11.7385,
80.5761)**

Conversions

Conversions Part 1

Format	Color
Hex	4646EC
RGB	70, 70, 236
RGB Percent	27%, 27%, 93%
CMY	0.7254, 0.7255, 0.0745
CMYK	0.70, 0.70, 0.00, 0.07
HSL	240°, 81%, 60%
HSV	240°, 70%, 93%
XYZ	19.8563, 11.7385, 80.5761
YIQ	88.9240, -53.2860, 51.6260

Conversions

Conversions Part 2

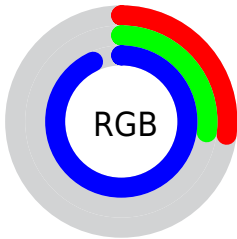
Format	Color
R _Y B	70, 70, 236
Decimal	4605676
CIE Lab	40.80, 51.86, -82.98
CIE LCh	41, 97.852, 302.008
Yxy	11.7385, 0.1770, 0.1046
Android (android.graphics.Color)	4282795756 (0xFF4646EC)
YUV	88.9240, 72.5085, -16.5963
Hunter-Lab	34.2615, 43.4923, -115.4550

Details

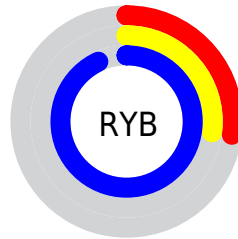
The XYZ color **19.8563, 11.7385, 80.5761** is a dark color, and the websafe version is hex **3333CC**. The color can be described as dark muted blue. A complement of this color would be **65.6886, 78.2639, 17.4383**, and the grayscale version is **9.3330, 9.8190, 10.6929**.

A 20% lighter version of the original color is **35.4139, 26.1419, 97.7871**, and **8.4633, 3.9079, 42.9561** is the 20% darker color. If you saturate the color by 10%, you get **17.2784, 8.6319, 80.1127**, and if you desaturate by 10%, it is **23.6836, 16.3493, 81.2647**.

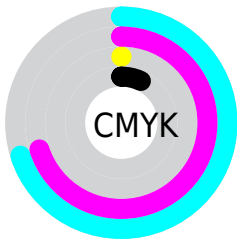
Distribution



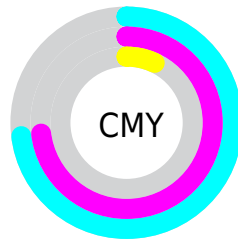
- Red (27%)
- Green (27%)
- Blue (93%)



- Red (27%)
- Yellow (27%)
- Blue (93%)



- Cyan (70%)
- Magenta (70%)
- Yellow (0%)
- Black (7%)



- Cyan (73%)
- Magenta (73%)
- Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 19.8563, 11.7385, 80.5761 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 19.8563, 11.7385, 80.5761 by changing the saturation by 10% instead.

■ 19.8563, 11.7385,
80.5761

■ 19.8563, 11.7385,
80.5761

243.9845,
202.6663, 516.6301

■ 12.3983, 6.5659,
59.6636

■ 42.6819, 29.0179,
135.9941

■ 7.0897, 3.1921,
42.7240

■ 58.7802, 41.8935,
171.3367

■ 3.5651, 1.2328,
29.3388

■ 78.4893, 58.1056,
212.3263

■ 1.4591, 0.0883,
19.0895

■ 102.1746, 78.0385,
259.3816

■ 0.2978, 0.0000,
11.5575

■ 130.2014,
102.0766, 312.9211

■ 0.0000, 0.0000,
6.3243

162.9351,

■ 0.0000, 0.0000,

130.6043, 373.3633

2.9713

200.7410,
164.0061, 441.1268

■ 0.0000, 0.0000,
1.0800

■ 0.0000, 0.0000,
0.0000

■ 19.8563, 11.7385,
80.5761

■ 19.8563, 11.7385,
80.5761

■ 17.2784, 8.6319,
80.1127

■ 23.6836, 16.3493,
81.2647

■ 15.7919, 6.8409,
79.8453

■ 28.8888, 22.6212,
82.2010

■ 15.1406, 6.0563,
79.7282

■ 35.5870, 30.6921,
83.4058

■ 43.8805, 40.6853,
84.8975

■ 53.8627, 52.7134,
86.6931

■ 65.6198, 66.8801,
88.8079

■ 79.2319, 83.2822,
91.2564

■ 92.1404, 98.8362,
93.5782

Harmonies

Analogous

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



11.6324, 11.7385, 102.0388



19.8563, 11.7385, 80.5761



27.6300, 11.7385, 40.5168

Triad

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



19.8563, 11.7385, 80.5761



18.6879, 11.7385, 0.0000



2.4166, 11.7385, 14.1710

Complementary

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



19.8563, 11.7385, 80.5761



65.6886, 78.2639, 17.4383

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.



3.0227, 11.7385, 1.9137



19.8563, 11.7385, 80.5761



10.6950, 11.7385, 0.0000

Square

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



19.8563, 11.7385, 80.5761



26.7810, 11.7385, 1.3302



5.4623, 11.7385, 0.0000



3.2232, 11.7385, 45.7435

Rectangle

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



19.8563, 11.7385, 80.5761



30.3411, 11.7385, 18.8830



5.4623, 11.7385, 0.0000



2.4607, 11.7385, 8.1598

Sweetspot

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



19.8570, 11.7387, 80.5765



63.2515, 61.6840, 103.1802



47.6616, 67.3493, 89.8449



12.7970, 12.3095, 21.9514



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.



19.8570, 11.7387, 80.5765



19.7432, 9.2598, 95.3545



30.4671, 17.2084, 81.0730



14.2314, 14.5490, 18.9804



8.3458, 3.3383, 43.9475



0.6554, 0.2622, 3.4509

Inverse Universe

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



51.9206, 28.2683, 82.0664



60.0731, 30.0509, 97.2267



44.2377, 67.2056, 16.4344



15.7148, 15.3138, 19.0495



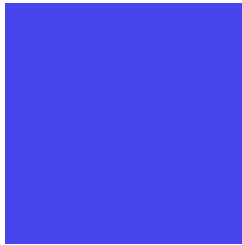
27.4118, 13.1674, 44.8316



2.1525, 1.0340, 3.5205

Previews

White Background



This preview shows how the XYZ color 19.8563, 11.7385, 80.5761 looks on a white background.

Color Contrast Check

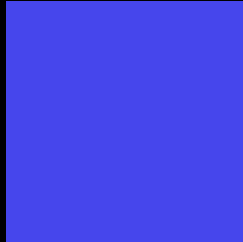
Large Text (above 18pt) WCAG AA ✓ Pass

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 19.8563, 11.7385, 80.5761 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

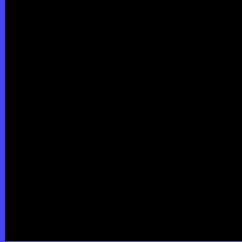
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 19.8563, 11.7385, 80.5761

Background



This preview shows how black text looks on a background with the XYZ color 19.8563, 11.7385, 80.5761.



This preview shows how white text looks on a background with the XYZ color 19.8563, 11.7385,

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

19.8563, 11.7385, 80.5761

Protanopia

13.5648, 11.5493, 52.5532

Deuteranopia

11.2506, 11.4885, 37.7009



Tritanopia

8.1347, 11.5003, 17.4138

Trichromacy



Original Color

19.8563, 11.7385, 80.5761

Protanomaly

15.0799, 11.1508, 61.6791

Deuteranomaly

13.2946, 10.9477, 50.7026

Tritanomaly

10.4868, 10.5040, 33.8225

Monochromacy



Original Color

19.8563, 11.7385, 80.5761

Achromatopsia

9.4954, 9.9899, 10.8790

Achromatomaly

11.3795, 9.7814, 26.8794

CSS Examples

Text

The CSS property to change the color of the text to XYZ 19.8563, 11.7385, 80.5761 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(70, 70, 236)` looks like.

```
.text, #text, p{  
    color:rgb(70, 70, 236)  
}
```

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(70, 70, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(70, 70, 236) }
```

Border

The CSS property to change the border of an element to XYZ 19.8563, 11.7385, 80.5761 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(70, 70, 236) }
```


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

```
.border{ border-color:rgb(70, 70, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(70, 70, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(70, 70, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(70, 70, 236);  
box-shadow:4px 4px 4px 4px rgb(70, 70,  
236) }
```

Background

The CSS property to change the background color of an element to XYZ 19.8563, 11.7385, 80.5761 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(70, 70, 236) }
```

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

```
.background{ background-color: rgb(70, 70,  
236) }
```

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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