

Converting Colors

XYZ(20.0970, 11.8665, 36.0323)

Have a look what the booklet for
XYZ(20.0970, 11.8665, 36.0323)
contains.

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Color

**XYZ(19.9780, 11.7814,
35.8714)**

Conversions

Conversions Part 1

Format	Color
Hex	923AA3
RGB	146, 58, 163
RGB Percent	57%, 23%, 64%
CMY	0.4274, 0.7725, 0.3608
CMYK	0.10, 0.64, 0.00, 0.36
HSL	290°, 48%, 43%
HSV	290°, 64%, 64%
XYZ	19.9780, 11.7814, 35.8714
YIQ	96.2820, 18.7430, 51.3110

Conversions

Conversions Part 2

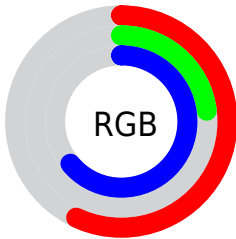
Format	Color
RYB	146, 58, 163
Decimal	9583267
CIELab	40.87, 52.17, -40.09
CIElCh	41, 65.793, 322.463
Yxy	11.7814, 0.2954, 0.1742
Android (android.graphics.Color)	4287773347 (0xFF923AA3)
YUV	96.2820, 32.8920, 43.6027
Hunter-Lab	34.3240, 43.8272, -37.9360

Details

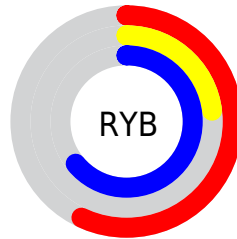
The XYZ color **19.9780, 11.7814, 35.8714** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **16.7628, 27.9959, 8.5236**, and the grayscale version is **11.1065, 11.6849, 12.7248**.

A 20% lighter version of the original color is **42.6964, 28.9874, 69.6744**, and **7.2829, 3.4230, 15.3158** is the 20% darker color. If you saturate the color by 10%, you get **18.8190, 10.1514, 35.6180**, and if you desaturate by 10%, it is **21.4089, 13.9383, 36.2125**.

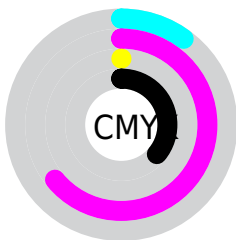
Distribution



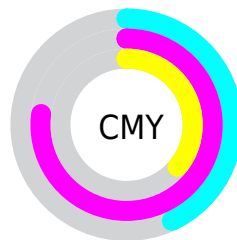
- Red (57%)
- Green (23%)
- Blue (64%)



- Red (57%)
- Yellow (23%)
- Blue (64%)



- Cyan (10%)
- Magenta (64%)
- Yellow (0%)
- Black (36%)



- Cyan (43%)
- Magenta (77%)
- Yellow (36%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 19.9780, 11.7814, 35.8714 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 19.9780, 11.7814, 35.8714 by changing the saturation by 10% instead.

■ 19.9780, 11.7814,
35.8714

■ 19.9780, 11.7814,
35.8714

244.6318,
202.9527, 343.4185

■ 12.4872, 6.5950,
24.0460

■ 42.8845, 29.0963,
70.0003

■ 7.1510, 3.2101,
15.1552

■ 59.0310, 41.9937,
93.1409

■ 3.6039, 1.2424,
8.7806

■ 78.7934, 58.2301,
120.8904

■ 1.4806, 0.0959,
4.5035

■ 102.5371, 78.1901,
153.6671

■ 0.3126, 0.0000,
1.9054

■ 130.6274,
102.2579, 191.8898

■ 0.0000, 0.0000,
0.4962

■ 163.4297,

■ 0.0000, 0.0000,

130.8180, 235.9769

0.0000

201.3094,
164.2548, 286.3469

■ 19.9780, 11.7814,
35.8714

■ 19.9780, 11.7814,
35.8714

■ 18.8190, 10.1514,
35.6180

■ 21.4089, 13.9383,
36.2125

■ 17.9048, 8.9955,
35.4431

■ 23.1326, 16.6649,
36.6479

■ 17.2050, 8.2525,
35.3366

■ 25.1694, 20.0015,
37.1846

■ 16.8638, 7.9299,
35.2923

■ 27.5375, 23.9843,
37.8286

■ 30.2535, 28.6466,
38.5853

■ 33.3331, 34.0193,
39.4600

■ 36.7909, 40.1317,
40.4576

■ 40.6406, 47.0110,
41.5826

■ 44.8952, 54.6835,
42.8392

Harmonies

Analogous

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



15.0087, 11.7814, 54.5514



19.9780, 11.7814, 35.8714



22.7268, 11.7814, 16.5219

Triad

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



19.9780, 11.7814, 35.8714



12.4227, 11.7814, 0.3660



4.7610, 11.7814, 25.4415

Complementary

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



19.9780, 11.7814, 35.8714



16.7628, 27.9959, 8.5236

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.



4.4264, 11.7814, 9.7302



19.9780, 11.7814, 35.8714



8.0938, 11.7814, 0.6753

Square

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



19.9780, 11.7814, 35.8714



17.6392, 11.7814, 1.3139



5.4615, 11.7814, 2.6501



6.5535, 11.7814, 46.1350

Rectangle

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



19.9780, 11.7814, 35.8714



22.5117, 11.7814, 8.0228



5.4615, 11.7814, 2.6501



4.4993, 11.7814, 19.2473

Sweetspot

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



19.9785, 11.7819, 35.8717



51.7004, 47.0258, 68.4081



10.9063, 8.6446, 35.7442



11.3181, 10.0591, 15.2826



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



19.9785, 11.7819, 35.8717



32.9963, 17.2531, 63.6472



20.5139, 12.3715, 21.7292



7.2512, 7.1439, 8.8998



13.1382, 6.1795, 27.4301



0.3043, 0.1444, 0.5777

Inverse Universe

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



17.8876, 11.3210, 7.8992



29.4077, 16.6239, 8.3268



16.8182, 27.8845, 14.8522



7.1184, 7.1038, 7.6098



11.8989, 6.1156, 1.3921



0.2625, 0.1335, 0.0949

Previews

White Background



This preview shows how the XYZ color 19.9780, 11.7814, 35.8714 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 19.9780, 11.7814, 35.8714 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

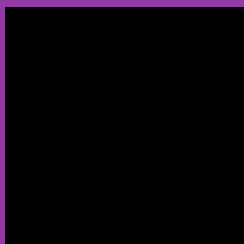
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 19.9780, 11.7814, 35.8714

Background



This preview shows how black text looks on a background with the XYZ color 19.9780, 11.7814, 35.8714.



This preview shows how white text looks on a background with the XYZ color 19.9780, 11.7814,

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

19.9780, 11.7814, 35.8714

Protanopia

14.2885, 11.9993, 54.9891

Deuteranopia

12.2621, 11.9738, 33.1174



Tritanopia

14.8161, 11.8072, 10.5150

Trichromacy



Original Color

19.9780, 11.7814, 35.8714

Protanomaly

13.6122, 10.2642, 47.1627

Deuteranomaly

13.8655, 11.0169, 34.1966

Tritanomaly

16.2923, 11.5783, 17.5958

Monochromacy



Original Color

19.9780, 11.7814, 35.8714

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

13.3469, 10.9681, 19.1829

CSS Examples

Text

The CSS property to change the color of the text to XYZ 19.9780, 11.7814, 35.8714 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(146, 58, 163)` looks like.

```
.text, #text, p{  
    color:rgb(146, 58, 163)  
}
```

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(146, 58, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 58, 163) }
```

Border

The CSS property to change the border of an element to XYZ 19.9780, 11.7814, 35.8714 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(146, 58, 163) }
```


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

```
.border{ border-color:rgb(146, 58, 163) }
```

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

Here you see how a box with a 4 pixel rgb(146, 58, 163) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(146, 58, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(146, 58, 163);  
box-shadow:4px 4px 4px 4px rgb(146, 58,  
163) }
```

Background

The CSS property to change the background color of an element to XYZ 19.9780, 11.7814, 35.8714 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 58, 163) }
```

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

```
.background{ background-color: rgb(146, 58,  
163) }
```

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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