

Converting Colors

XYZ(20.3306, 11.9604, 31.3724)

Have a look what the booklet for
XYZ(20.3306, 11.9604, 31.3724)
contains.

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Color

**XYZ(20.3498, 11.9985,
31.3804)**

Conversions

Conversions Part 1

Format	Color
Hex	993999
RGB	153, 57, 153
RGB Percent	60%, 22%, 60%
CMY	0.4000, 0.7765, 0.4000
CMYK	0.00, 0.63, 0.00, 0.40
HSL	300°, 46%, 41%
HSV	300°, 63%, 60%
XYZ	20.3498, 11.9985, 31.3804
YIQ	96.6480, 26.4000, 50.2080

Conversions

Conversions Part 2

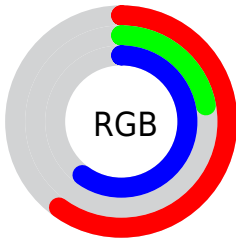
Format	Color
R_{YB}	153, 57, 153
Decimal	10041753
CIE _{Lab}	41.21, 52.51, -33.46
CIE _{LCh}	41, 62.265, 327.490
Yxy	11.9985, 0.3193, 0.1883
Android (android.graphics.Color)	4288231833 (0xFF993999)
YUV	96.6480, 27.7815, 49.4207
Hunter-Lab	34.6389, 44.2481, -29.4654

Details

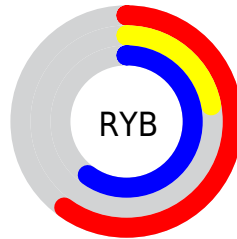
The XYZ color **20.3498, 11.9985, 31.3804** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **13.8177, 23.9483, 7.7658**, and the grayscale version is **11.2063, 11.7899, 12.8392**.

A 20% lighter version of the original color is **43.6479, 29.6246, 63.0921**, and **7.4946, 3.5922, 12.6103** is the 20% darker color. If you saturate the color by 10%, you get **19.7044, 10.7074, 31.1653**, and if you desaturate by 10%, it is **21.2240, 13.7466, 31.6719**.

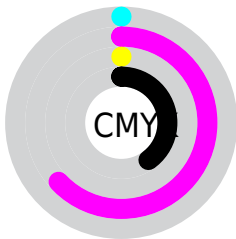
Distribution



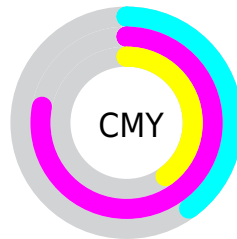
- Red (60%)
- Green (22%)
- Blue (60%)



- Red (60%)
- Yellow (22%)
- Blue (60%)



- Cyan (0%)
- Magenta (63%)
- Yellow (0%)
- Black (40%)





- Cyan (40%)
- Magenta (78%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.3498, 11.9985, 31.3804 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 20.3498, 11.9985, 31.3804 by changing the saturation by 10% instead.


 20.3498, 11.9985,
31.3804


 20.3498, 11.9985,
31.3804


246.6002,
204.3954, 322.6923


 12.7593, 6.7427,
20.6278

 43.5024, 29.4924,
62.9251

 7.3389, 3.3017,
12.6636


 59.7951, 42.4992,
84.5542


 3.7231, 1.2912,
7.0693


 79.7194, 58.8585,
110.6459

 1.5467, 0.1344,
3.4264

 103.6405, 78.9546,
141.6188

 0.3573, 0.0000,
1.3163

 131.9237,
103.1719, 177.8913

 0.0000, 0.0000,
0.0751

 164.9345,

 0.0000, 0.0000,

131.8949, 219.8820

0.0000

203.0382,
165.5079, 268.0095

■ 20.3498, 11.9985,
31.3804

■ 20.3498, 11.9985,
31.3804

■ 19.7044, 10.7074,
31.1653

■ 21.2240, 13.7466,
31.6719

■ 19.2653, 9.8292,
31.0189

■ 22.3443, 15.9871,
32.0454

■ 19.0077, 9.3141,
30.9330

■ 23.7277, 18.7539,
32.5066

■ 18.8869, 9.0723,
30.8927

■ 25.3895, 22.0776,
33.0606

■ 27.3438, 25.9861,
33.7121

■ 29.6036, 30.5057,
34.4654

■ 32.1813, 35.6610,
35.3247

■ 35.0885, 41.4753,
36.2938

■ 38.3362, 47.9708,
37.3764

Harmonies

Analogous

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



15.8743, 11.9985, 49.5914



20.3498, 11.9985, 31.3804



22.3938, 11.9985, 14.1778

Triad

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



20.3498, 11.9985, 31.3804



11.7867, 11.9985, 0.6189



5.3296, 11.9985, 28.1341

Complementary

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



20.3498, 11.9985, 31.3804



13.8177, 23.9483, 7.7658

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.



4.7682, 11.9985, 12.0107



20.3498, 11.9985, 31.3804



7.8635, 11.9985, 1.1134

Square

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



20.3498, 11.9985, 31.3804



16.7051, 11.9985, 1.3366



5.5606, 11.9985, 3.7690



7.3632, 11.9985, 47.0019

Rectangle

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



20.3498, 11.9985, 31.3804



21.7861, 11.9985, 6.9505



5.5606, 11.9985, 3.7690



4.9902, 11.9985, 21.9991

Sweetspot

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



20.3502, 11.9990, 31.3806



46.5877, 41.7752, 59.5798



8.9008, 6.0966, 30.8451



10.0929, 8.8362, 13.0911



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



20.3502, 11.9990, 31.3806



34.9526, 18.5050, 55.7009



17.1504, 10.7191, 14.5304



6.4612, 6.3237, 7.8090



15.6094, 7.4980, 25.5318



0.2334, 0.1121, 0.3817

Inverse Universe

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



20.3502, 11.9990, 31.3806



34.9526, 18.5050, 55.7009



15.6290, 24.6728, 17.3040



6.4612, 6.3237, 7.8090



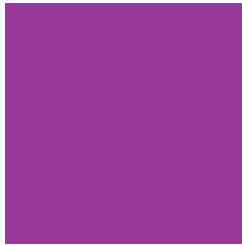
15.6094, 7.4980, 25.5318



0.2334, 0.1121, 0.3817

Previews

White Background



This preview shows how the XYZ color 20.3498, 11.9985, 31.3804 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 20.3498, 11.9985, 31.3804 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

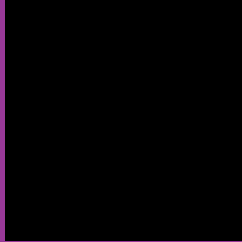
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.3498, 11.9985, 31.3804

Background



This preview shows how black text looks on a background with the XYZ color 20.3498, 11.9985, 31.3804.



This preview shows how white text looks on a background with the XYZ color 20.3498, 11.9985,

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

20.3498, 11.9985, 31.3804

Protanopia

14.2515, 12.3731, 49.2141

Deuteranopia

12.4435, 12.1612, 28.8856



Tritanopia

15.9628, 12.0931, 9.6765

Trichromacy



Original Color

20.3498, 11.9985, 31.3804

Protanomaly

14.3364, 10.8648, 41.8989

Deuteranomaly

14.1510, 11.1476, 29.8396

Tritanomaly

17.1097, 11.7589, 15.5553

Monochromacy



Original Color

20.3498, 11.9985, 31.3804

Achromatopsia

11.3621, 11.9538, 13.0177

Achromatomaly

13.5643, 11.1008, 18.2574

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.3498, 11.9985, 31.3804 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(153, 57, 153)` looks like.

```
.text, #text, p{  
    color:rgb(153, 57, 153)  
}
```

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(153, 57, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 57, 153) }
```

Border

The CSS property to change the border of an element to XYZ 20.3498, 11.9985, 31.3804 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(153, 57, 153) }
```


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

```
.border{ border-color:rgb(153, 57, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(153, 57, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 57, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 57, 153);  
box-shadow:4px 4px 4px 4px rgb(153, 57,  
153) }
```

Background

The CSS property to change the background color of an element to XYZ 20.3498, 11.9985, 31.3804 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 57, 153) }
```

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

```
.background{ background-color: rgb(153, 57,  
153) }
```

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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