

Converting Colors

XYZ(19.9598, 10.8603, 15.5243)

Have a look what the booklet for
XYZ(19.9598, 10.8603, 15.5243)
contains.

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Color

**XYZ(19.9389, 10.8522,
15.5118)**

Conversions

Conversions Part 1

Format	Color
Hex	AA236D
RGB	170, 35, 109
RGB Percent	67%, 14%, 43%
CMY	0.3333, 0.8627, 0.5725
CMYK	0.00, 0.79, 0.36, 0.33
HSL	327°, 66%, 40%
HSV	327°, 79%, 67%
XYZ	19.9389, 10.8522, 15.5118
YIQ	83.8010, 56.7060, 51.6340

Conversions

Conversions Part 2

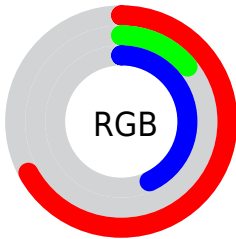
Format	Color
R_{YB}	170, 35, 109
Decimal	11150189
CIE Lab	39.33, 58.60, -9.06
CIE LCh	39, 59.295, 351.213
Yxy	10.8522, 0.4306, 0.2344
Android (android.graphics.Color)	4289340269 (0xFFAA236D)
YUV	83.8010, 12.4231, 75.5965
Hunter-Lab	32.9427, 50.3893, -4.8582

Details

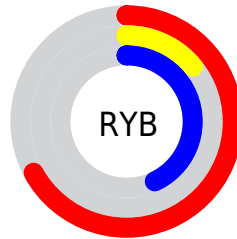
The XYZ color **19.9389, 10.8522, 15.5118** is a dark color, and the websafe version is hex **990066**. A complement of this color would be **17.1799, 29.9517, 15.9443**, and the grayscale version is **8.3538, 8.7888, 9.5710**.

A 20% lighter version of the original color is **42.7505, 27.3805, 36.2895**, and **7.6796, 3.8585, 4.8974** is the 20% darker color. If you saturate the color by 10%, you get **19.1586, 9.9248, 13.2998**, and if you desaturate by 10%, it is **20.9982, 12.2798, 17.9954**.

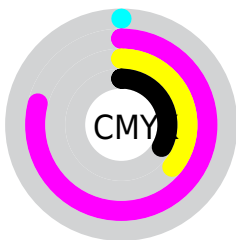
Distribution



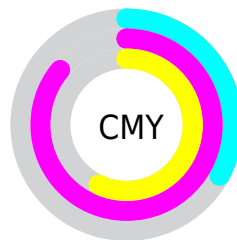
- Red (67%)
- Green (14%)
- Blue (43%)



- Red (67%)
- Yellow (14%)
- Blue (43%)



- Cyan (0%)
- Magenta (79%)
- Yellow (36%)
- Black (33%)



- Cyan (33%)
- Magenta (86%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 19.9389, 10.8522, 15.5118 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 19.9389, 10.8522, 15.5118 by changing the saturation by 10% instead.

■ 19.9389, 10.8522,
15.5118

■ 19.9389, 10.8522,
15.5118

244.4240,
196.6507, 238.1900

■ 12.4586, 5.9675,
9.0288

■ 42.8194, 27.3865,
36.5035

■ 7.1313, 2.8253,
4.6629

■ 58.9504, 39.8050,
51.8492

■ 3.5914, 1.0412,
1.9956

■ 78.6957, 55.5035,
70.9862

■ 1.4737, 0.0000,
0.5526

■ 102.4207, 74.8665,
94.3331

■ 0.3078, 0.0000,
0.0000

■ 130.4906, 98.2783,
122.3084

■ 0.0000, 0.0000,
0.0000

■ 163.2709,

126.1233, 155.3306

201.1269,
158.7860, 193.8183

■ 19.9389, 10.8522,
15.5118

■ 19.9389, 10.8522,
15.5118

■ 19.1586, 9.9248,
13.2998

■ 20.9982, 12.2798,
17.9954

■ 18.5926, 9.3696,
11.3329

■ 22.3674, 14.2679,
20.7649

■ 18.5614, 9.3396,
11.2223

■ 24.0741, 16.8703,
23.8338

■ 26.1423, 20.1338,
27.2144

■ 28.5939, 24.1007,
30.9177

■ 31.4487, 28.8097,
34.9542

■ 34.7253, 34.2966,
39.3340

■ 38.4412, 40.5950,
44.0664

■ 42.6125, 47.7364,
49.1603

Harmonies

Analogous

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



17.5488, 10.8522, 31.6900



19.9389, 10.8522, 15.5118



19.2776, 10.8522, 5.5024

Triad

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



19.9389, 10.8522, 15.5118



7.7739, 10.8522, 0.8763



6.2070, 10.8522, 38.6554

Complementary

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



19.9389, 10.8522, 15.5118



17.1799, 29.9517, 15.9443

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.



4.6765, 10.8522, 21.7160



19.9389, 10.8522, 15.5118



5.4049, 10.8522, 2.6905

Square

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



19.9389, 10.8522, 15.5118



11.5352, 10.8522, 0.6441



4.4267, 10.8522, 8.7598



9.1835, 10.8522, 49.7049

Rectangle

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



19.9389, 10.8522, 15.5118



17.2521, 10.8522, 2.4328



4.4267, 10.8522, 8.7598



5.5422, 10.8522, 33.0894

Sweetspot

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



19.9392, 10.8528, 15.5120



54.3619, 47.8030, 59.6609



12.6551, 6.5784, 38.6330



11.7325, 10.0182, 12.7464



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



19.9392, 10.8528, 15.5120



34.0046, 17.2696, 21.4878



17.5925, 9.9141, 3.1543



7.6967, 7.6085, 8.7198



13.6824, 6.8817, 8.4049



0.3582, 0.1775, 0.3375

Inverse Universe

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



19.9392, 10.8528, 15.5120



34.0046, 17.2696, 21.4878



21.7015, 31.7603, 39.7547



7.6967, 7.6085, 8.7198



13.6824, 6.8817, 8.4049



0.3582, 0.1775, 0.3375

Previews

White Background



This preview shows how the XYZ color 19.9389, 10.8522, 15.5118 looks on a white background.

Color Contrast Check

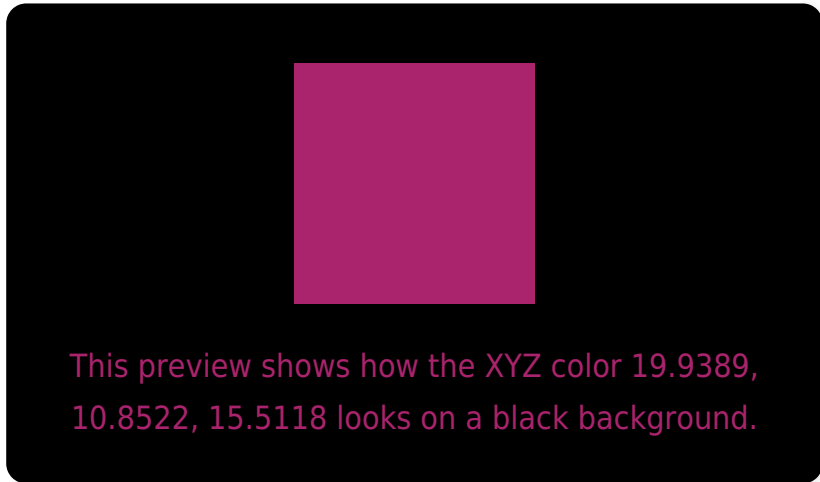
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

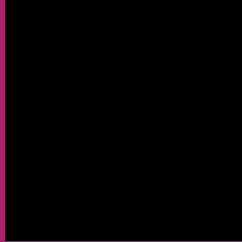
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 19.9389, 10.8522, 15.5118

Background



This preview shows how black text looks on a background with the XYZ color 19.9389, 10.8522, 15.5118.



This preview shows how white text looks on a background with the XYZ color 19.9389, 10.8522,

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

19.9389, 10.8522, 15.5118

Protanopia

11.8413, 11.1773, 29.1371

Deuteranopia

11.2849, 11.0941, 14.1170



Tritanopia

17.6435, 10.8388, 4.7766

Trichromacy



Original Color

19.9389, 10.8522, 15.5118

Protanomaly

12.6712, 9.3881, 23.3345

Deuteranomaly

13.2605, 9.8864, 14.5740

Tritanomaly

18.1833, 10.6775, 7.7592

Monochromacy



Original Color

19.9389, 10.8522, 15.5118

Achromatopsia

8.4267, 8.8656, 9.6546

Achromatomaly

10.9942, 8.3316, 11.3846

CSS Examples

Text

The CSS property to change the color of the text to XYZ 19.9389, 10.8522, 15.5118 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(170, 35, 109)` looks like.

```
.text, #text, p{  
    color:rgb(170, 35, 109)  
}
```

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(170, 35, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 35, 109) }
```

Border

The CSS property to change the border of an element to XYZ 19.9389, 10.8522, 15.5118 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(170, 35, 109) }
```


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

```
.border{ border-color:rgb(170, 35, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 35, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 35, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 35, 109);  
box-shadow:4px 4px 4px 4px rgb(170, 35,  
109) }
```

Background

The CSS property to change the background color of an element to XYZ 19.9389, 10.8522, 15.5118 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 35, 109) }
```

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

```
.background{ background-color: rgb(170, 35,  
109) }
```

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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