

# Converting Colors

XYZ(19.8667, 11.2710, 24.8350)

Have a look what the booklet for  
XYZ(19.8667, 11.2710, 24.8350)  
contains.

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# Color

**XYZ(19.8704, 11.2910,  
24.7990)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9F3089
RGB	159, 48, 137
RGB Percent	62%, 19%, 54%
CMY	0.3765, 0.8117, 0.4627
CMYK	0.00, 0.70, 0.14, 0.38
HSL	312°, 54%, 41%
HSV	312°, 70%, 62%
XYZ	19.8704, 11.2910, 24.7990
YIQ	91.3350, 37.5870, 51.2110

# Conversions

## Conversions Part 2

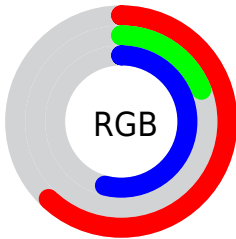
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	159, 48, 137
Decimal	10432649
CIE <sub>Lab</sub>	40.07, 55.09, -25.47
CIE <sub>LCh</sub>	40, 60.691, 335.183
Yxy	11.2910, 0.3551, 0.2018
Android (android.graphics.Color)	4288622729 (0xFF9F3089)
YUV	91.3350, 22.5128, 59.3422
Hunter-Lab	33.6021, 46.7513, -20.2357

# Details

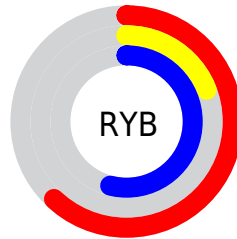
The XYZ color **19.8704, 11.2910, 24.7990** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **14.7232, 25.8673, 10.0123**, and the grayscale version is **9.9651, 10.4841, 11.4172**.

A 20% lighter version of the original color is **42.5731, 28.0610, 52.4627**, and **7.4292, 3.6312, 9.3261** is the 20% darker color. If you saturate the color by 10%, you get **19.1101, 10.1268, 23.4464**, and if you desaturate by 10%, it is **20.8711, 12.9251, 26.2645**.

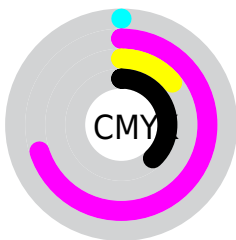
# Distribution



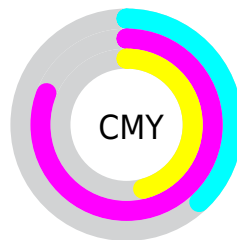
- Red (62%)
- Green (19%)
- Blue (54%)



- Red (62%)
- Yellow (19%)
- Blue (54%)



- Cyan (0%)
- Magenta (70%)
- Yellow (14%)
- Black (38%)




- Cyan (38%)
- Magenta (81%)
- Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.8704, 11.2910, 24.7990 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 19.8704, 11.2910, 24.7990 by changing the saturation by 10% instead.





 19.8704, 11.2910,  
24.7990


 19.8704, 11.2910,  
24.7990


244.0596,  
199.6532, 290.2510


 12.4086, 6.2629,  
15.7097


 42.7054, 28.1970,  
52.2910


 7.0968, 3.0056,  
9.1668


 58.8093, 40.8438,  
71.5308


 3.5696, 1.1347,  
4.7519

 78.5246, 56.7989,  
94.9912

 1.4616, 0.0073,  
2.0462

 102.2167, 76.4467,  
123.0908

 0.2995, 0.0000,  
0.5835

 130.2508,  
100.1716, 156.2480

 0.0000, 0.0000,  
0.0000

 162.9925,

128.3581, 194.8814

200.8069,  
161.3905, 239.4096

■ 19.8704, 11.2910,  
24.7990

■ 19.8704, 11.2910,  
24.7990

■ 19.1101, 10.1268,  
23.4464

■ 20.8711, 12.9251,  
26.2645

■ 18.5628, 9.3782,  
22.1971

■ 22.1336, 15.0724,  
27.8500

■ 18.1680, 8.9242,  
21.0306

■ 23.6781, 17.7728,  
29.5626

■ 18.1607, 8.9160,  
21.0086

■ 25.5224, 21.0620,  
31.4085

■ 27.6830, 24.9728,  
33.3936

■ 30.1749, 29.5354,  
35.5229

■ 33.0125, 34.7782,  
37.8017

■ 36.2090, 40.7277,  
40.2345

■ 39.7770, 47.4091,  
42.8258

# Harmonies

## Analogous

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



16.0971, 11.2910, 42.5923



19.8704, 11.2910, 24.7990



20.9659, 11.2910, 10.3185

# Triad

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



19.8704, 11.2910, 24.7990



10.0178, 11.2910, 0.6039



5.3871, 11.2910, 31.0449

# Complementary

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



19.8704, 11.2910, 24.7990



14.7232, 25.8673, 10.0123

# 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.



4.5255, 11.2910, 14.5068



19.8704, 11.2910, 24.7990



6.7146, 11.2910, 1.4187

# Square

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



19.8704, 11.2910, 24.7990



14.4956, 11.2910, 0.9784



4.9388, 11.2910, 4.9112



7.6833, 11.2910, 47.5637



# Rectangle

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



19.8704, 11.2910, 24.7990



19.8375, 11.2910, 4.8387



4.9388, 11.2910, 4.9112



4.9518, 11.2910, 25.0138

# Sweetspot

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



19.8708, 11.2916, 24.7992



48.9223, 43.5321, 59.2214



9.7240, 5.8594, 33.4196



10.7966, 9.3916, 13.1409



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



19.8708, 11.2916, 24.7992



33.6135, 17.2758, 40.6733



16.9227, 10.1123, 9.2749



6.8478, 6.7320, 8.0494



14.3586, 7.0480, 16.6715



0.2699, 0.1313, 0.3676



# Inverse Universe

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



19.8708, 11.2916, 24.7992



33.6135, 17.2758, 40.6733



17.2462, 26.8765, 23.2986



6.8478, 6.7320, 8.0494



14.3586, 7.0480, 16.6715



0.2699, 0.1313, 0.3676



# Previews

## White Background



This preview shows how the XYZ color 19.8704, 11.2910, 24.7990 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

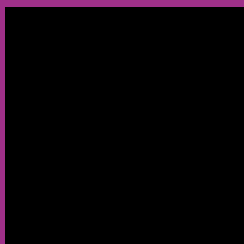
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 19.8704, 11.2910, 24.7990**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.8704, 11.2910, 24.7990.



This preview shows how white text looks on a background with the XYZ color 19.8704, 11.2910,



# 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

19.8704, 11.2910, 24.7990

### Protanopia

13.1735, 11.7081, 42.1230

### Deuteranopia

11.7783, 11.5484, 22.7274



## Tritanopia

16.3737, 11.3744, 7.4634

# Trichromacy



## Original Color

19.8704, 11.2910, 24.7990

## Protanomaly

13.5005, 10.1563, 34.9670

## Deuteranomaly

13.5696, 10.4460, 23.4914

## Tritanomaly

17.2976, 11.1506, 12.3069

# Monochromacy



## Original Color

19.8704, 11.2910, 24.7990

## Achromatopsia

9.9438, 10.4616, 11.3927

## Achromatomaly

12.4253, 9.8279, 15.4294

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.8704, 11.2910, 24.7990 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(159, 48, 137)` looks like.

```
.text, #text, p{  
    color:rgb(159, 48, 137)  
}
```

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(159, 48, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(159, 48, 137) }
```

## Border

The CSS property to change the border of an element to XYZ 19.8704, 11.2910, 24.7990 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(159, 48, 137) }
```



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

```
.border{ border-color:rgb(159, 48, 137) }
```

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

Here you see how a box with a 4 pixel rgb(159, 48, 137) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(159, 48, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(159, 48, 137);  
box-shadow:4px 4px 4px 4px rgb(159, 48,  
137) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.8704, 11.2910, 24.7990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(159, 48, 137) }
```

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

```
.background{ background-color: rgb(159, 48,  
137) }
```

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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