

# Converting Colors

XYZ(19.8751, 9.7140, 63.1155)

Have a look what the booklet for  
XYZ(19.8751, 9.7140, 63.1155)  
contains.

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# Color

**XYZ(19.9269, 9.7491,  
63.1188)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7622D4
RGB	118, 34, 212
RGB Percent	46%, 13%, 83%
CMY	0.5372, 0.8667, 0.1686
CMYK	0.44, 0.84, 0.00, 0.17
HSL	268°, 72%, 48%
HSV	268°, 84%, 83%
XYZ	19.9269, 9.7491, 63.1188
YIQ	79.4080, -7.0740, 73.1660

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	118, 34, 212
Decimal	7742164
CIELab	37.39, 66.91, -74.71
CIELCh	37, 100.295, 311.847
Yxy	9.7491, 0.2147, 0.1051
Android (android.graphics.Color)	4285932244 (0xFF7622D4)
YUV	79.4080, 65.3679, 33.8452
Hunter-Lab	31.2235, 59.2777, -97.9990

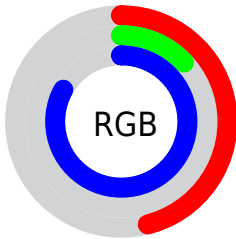
# Details

The XYZ color **19.9269, 9.7491, 63.1188** is a dark color, and the websafe version is hex **6600CC**.

The color can be described as dark washed purple. A complement of this color would be **32.7338, 51.7915, 9.7849**, and the grayscale version is **7.3898, 7.7747, 8.4666**.

A 20% lighter version of the original color is **40.2372, 24.3393, 97.1850**, and **7.5221, 3.1846, 31.6707** is the 20% darker color. If you saturate the color by 10%, you get **18.0655, 8.1502, 62.9085**, and if you desaturate by 10%, it is **22.3429, 12.1876, 63.4624**.

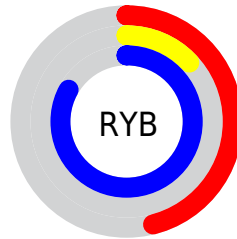
# Distribution



Red (46%)

Green (13%)

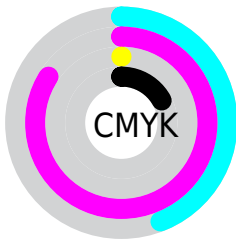
Blue (83%)



Red (46%)

Yellow (13%)

Blue (83%)

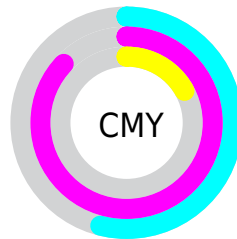


Cyan (44%)

Magenta (84%)

Yellow (0%)

Black (17%)



Cyan (54%)

Magenta (87%)

Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.9269, 9.7491, 63.1188 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 19.9269, 9.7491, 63.1188 by changing the saturation by 10% instead.



19.9269, 9.7491,  
63.1188

19.9269, 9.7491,  
63.1188

244.3602,  
188.8719, 454.1203

12.4499, 5.2329,  
45.4957

42.7995, 25.3225,  
110.9281

7.1252, 2.3846,  
31.5023

58.9257, 37.1485,  
141.9514

3.5876, 0.8179,  
20.7199

78.6658, 52.1799,  
178.2785

1.4716, 0.0000,  
12.7302

102.3850, 70.8012,  
220.3280

0.3064, 0.0000,  
7.1145

130.4486, 93.3966,  
268.5184

0.0000, 0.0000,  
3.4543

163.2222,

0.0000, 0.0000,

120.3505, 323.2682

1.3310

201.0709,  
152.0475, 384.9960

■ 0.0000, 0.0000,  
0.0870

■ 0.0000, 0.0000,  
0.0000

■ 19.9269, 9.7491,  
63.1188

■ 19.9269, 9.7491,  
63.1188

■ 18.0655, 8.1502,  
62.9085

■ 22.3429, 12.1876,  
63.4624

■ 17.1447, 7.4656,  
62.8249

■ 25.3775, 15.5874,  
63.9587

■ 29.0862, 20.0500,  
64.6246

■ 33.5169, 25.6633,  
65.4745

■ 38.7127, 32.5059,  
66.5214

■ 44.7132, 40.6492,  
67.7770

■ 51.5549, 50.1588,  
69.2519

■ 59.2718, 61.0962,  
70.9563

■ 67.8960, 73.5187,  
72.8996

# Harmonies

## Analogous

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



11.9826, 9.7491, 93.6593



19.9269, 9.7491, 63.1188



26.2047, 9.7491, 25.5109

# Triad

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



19.9269, 9.7491, 63.1188



13.5768, 9.7491, 0.0000



1.7474, 9.7491, 19.4505

# Complementary

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



19.9269, 9.7491, 63.1188



32.7338, 51.7915, 9.7849

# 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.



1.8633, 9.7491, 3.0591



19.9269, 9.7491, 63.1188



6.9949, 9.7491, 0.0000

# Square

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



19.9269, 9.7491, 63.1188



21.5388, 9.7491, 0.0000



3.3058, 9.7491, 0.0000



2.8540, 9.7491, 54.6672



# Rectangle

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



19.9269, 9.7491, 63.1188



27.4163, 9.7491, 9.5358



3.3058, 9.7491, 0.0000



1.6659, 9.7491, 11.7729

# Sweetspot

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



19.9275, 9.7494, 63.1191



66.6565, 60.0156, 102.6787



20.3849, 20.7765, 65.2234



13.5564, 11.8763, 21.8278



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.



19.9275, 9.7494, 63.1191



25.8434, 11.2376, 95.4147



37.9279, 19.0289, 63.9615



12.2944, 12.2932, 15.6624



10.6981, 4.6676, 38.7902



0.7404, 0.3306, 2.3441



# Inverse Universe

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



31.6195, 16.6995, 21.9775



45.5891, 22.9996, 24.8319



24.7048, 47.6524, 9.4091



12.6945, 12.5293, 14.3316



18.6168, 9.3830, 10.5520

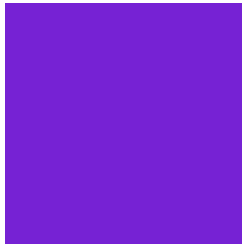


1.1646, 0.5826, 0.8560



# Previews

## White Background



This preview shows how the XYZ color 19.9269, 9.7491, 63.1188 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

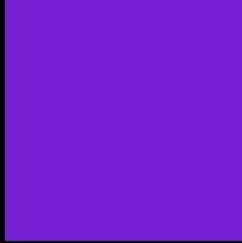
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the XYZ color 19.9269, 9.7491, 63.1188 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

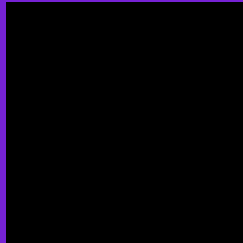
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 19.9269, 9.7491, 63.1188**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.9269, 9.7491, 63.1188.



This preview shows how white text looks on a background with the XYZ color 19.9269, 9.7491,



# 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

19.9269, 9.7491, 63.1188

### Protanopia

11.4867, 9.7923, 44.4647

### Tritanopia

9.6450, 9.7982, 11.9726

# Trichromacy



## Original Color

19.9269, 9.7491, 63.1188



## Protanomaly

12.4589, 8.2158, 50.7983



## Tritanomaly

11.8380, 8.6497, 24.7125

# Monochromacy



## Original Color

19.9269, 9.7491, 63.1188



## Achromatopsia

7.4317, 7.8187, 8.5146



## Achromatomaly

10.1225, 7.4145, 20.9763

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.9269, 9.7491, 63.1188 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(118, 34, 212)` looks like.

```
.text, #text, p{  
    color:rgb(118, 34, 212)  
}
```

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(118, 34, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 34, 212) }
```

## Border

The CSS property to change the border of an element to XYZ 19.9269, 9.7491, 63.1188 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(118, 34, 212) }
```

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

```
.border{ border-color:rgb(118, 34, 212) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 34, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(118, 34, 212); -webkit-box-shadow:4px 4px 4px 4px rgb(118, 34, 212); box-shadow:4px 4px 4px 4px rgb(118, 34, 212) }
```



# Background

The CSS property to change the background color of an element to XYZ 19.9269, 9.7491, 63.1188 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 34, 212) }
```

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

```
.background{ background-color: rgb(118, 34,  
212) }
```

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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