

Converting Colors

XYZ(20.1132, 10.3862, 54.9781)

Have a look what the booklet for
XYZ(20.1132, 10.3862, 54.9781)
contains.

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Color

**XYZ(20.1900, 10.4466,
54.9851)**

Conversions

Conversions Part 1

Format	Color
Hex	812AC7
RGB	129, 42, 199
RGB Percent	51%, 16%, 78%
CMY	0.4941, 0.8353, 0.2196
CMYK	0.35, 0.79, 0.00, 0.22
HSL	273°, 65%, 47%
HSV	273°, 79%, 78%
XYZ	20.1900, 10.4466, 54.9851
YIQ	85.9110, 1.4550, 67.2710

Conversions

Conversions Part 2

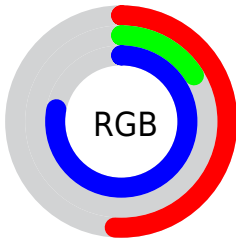
Format	Color
R _{YB}	129, 42, 199
Decimal	8465095
CIE _{Lab}	38.63, 62.85, -65.07
CIE _{LCh}	39, 90.469, 314.004
Yxy	10.4466, 0.2358, 0.1220
Android (android.graphics.Color)	4286655175 (0xFF812AC7)
YUV	85.9110, 55.7529, 37.7891
Hunter-Lab	32.3212, 54.9410, -78.2398

Details

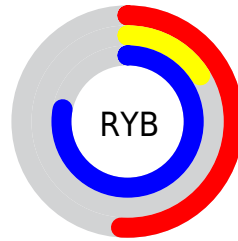
The XYZ color **20.1900, 10.4466, 54.9851** is a dark color, and the websafe version is hex **9933CC**. The color can be described as dark muted purple. A complement of this color would be **27.5235, 44.4589, 9.3215**, and the grayscale version is **8.7126, 9.1663, 9.9821**.

A 20% lighter version of the original color is **42.9112, 26.5202, 97.4650**, and **7.6326, 3.3532, 26.6305** is the 20% darker color. If you saturate the color by 10%, you get **18.3615, 8.7037, 54.7453**, and if you desaturate by 10%, it is **22.4867, 12.9508, 55.3476**.

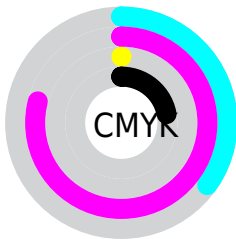
Distribution



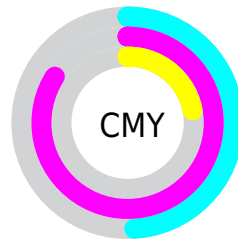
- Red (51%)
- Green (16%)
- Blue (78%)



- Red (51%)
- Yellow (16%)
- Blue (78%)



- Cyan (35%)
- Magenta (79%)
- Yellow (0%)
- Black (22%)





- Cyan (49%)
- Magenta (84%)
- Yellow (22%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.1900, 10.4466, 54.9851 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 20.1900, 10.4466, 54.9851 by changing the saturation by 10% instead.


 20.1900, 10.4466,
54.9851


 20.1900, 10.4466,
54.9851


245.7559,
193.8305, 423.1358


 12.6423, 5.6961,
38.9913


 43.2370, 26.6322,
98.9901

 7.2580, 2.6612,
26.4452


 59.4670, 38.8360,
127.8383

 3.6717, 0.9575,
16.9282


 79.3219, 54.2931,
161.8083

 1.5181, 0.0000,
10.0219

 103.1669, 73.3878,
201.3188

 0.3381, 0.0000,
5.3077

 131.3675, 96.5044,
246.7883

 0.0000, 0.0000,
2.3670

 164.2889,

 0.0000, 0.0000,

124.0275, 298.6353

0.7684

202.2966,
156.3414, 357.2782

■ 0.0000, 0.0000,
0.0000

■ 20.1900, 10.4466,
54.9851

■ 20.1900, 10.4466,
54.9851

■ 18.3615, 8.7037,
54.7453

■ 22.4867, 12.9508,
55.3476

■ 16.9208, 7.5676,
54.6019

■ 25.2986, 16.3080,
55.8474

■ 16.7737, 7.4563,
54.5882

■ 28.6679, 20.5979,
56.4979

■ 32.6313, 25.8901,
57.3105

■ 37.2223, 32.2476,
58.2956

■ 42.4716, 39.7280,
59.4628

■ 48.4077, 48.3849,
60.8209

■ 55.0573, 58.2680,
62.3781

■ 62.4456, 69.4245,
64.1421

Harmonies

Analogous

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



12.9640, 10.4466, 82.0152



20.1900, 10.4466, 54.9851



25.4927, 10.4466, 23.0072

Triad

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



20.1900, 10.4466, 54.9851



13.4283, 10.4466, 0.0000



2.4502, 10.4466, 21.2920

Complementary

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



20.1900, 10.4466, 54.9851



27.5235, 44.4589, 9.3215

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.



2.4910, 10.4466, 4.5226



20.1900, 10.4466, 54.9851



7.4093, 10.4466, 0.0000

Square

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



20.1900, 10.4466, 54.9851



20.6448, 10.4466, 0.2627



3.9121, 10.4466, 0.1073



3.7629, 10.4466, 52.7144

Rectangle

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



20.1900, 10.4466, 54.9851



26.2791, 10.4466, 9.2360



3.9121, 10.4466, 0.1073



2.3294, 10.4466, 13.8202

Sweetspot

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



20.1906, 10.4469, 54.9854



69.2016, 62.1619, 102.9589



17.1301, 16.3484, 56.2858



14.1214, 12.3271, 21.8850



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.



20.1906, 10.4469, 54.9854



30.2221, 13.7039, 95.6600



33.8019, 17.5664, 50.9862



10.6092, 10.5723, 13.3990



10.8879, 4.8472, 35.1061



0.5980, 0.2720, 1.6661

Inverse Universe

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



27.3059, 14.9681, 16.7790



44.8170, 22.9160, 20.0722



21.9510, 41.5683, 9.8674



10.8271, 10.7142, 12.0727



16.3400, 8.2856, 7.0002



0.8100, 0.4069, 0.5228

Previews

White Background



This preview shows how the XYZ color 20.1900, 10.4466, 54.9851 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 20.1900, 10.4466, 54.9851 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

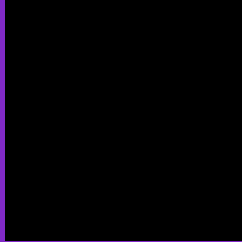
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.1900, 10.4466, 54.9851

Background



This preview shows how black text looks on a background with the XYZ color 20.1900, 10.4466, 54.9851.



This preview shows how white text looks on a background with the XYZ color 20.1900, 10.4466,

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

20.1900, 10.4466, 54.9851

Protanopia

12.3526, 10.5246, 47.8348

Deuteranopia

10.4357, 10.5786, 35.2101



Tritanopia

11.3646, 10.4579, 11.5448

Trichromacy



Original Color

20.1900, 10.4466, 54.9851



Protanomaly

12.8295, 8.8724, 50.3266



Deuteranomaly

11.4262, 8.7316, 41.6406



Tritanomaly

13.4273, 9.6079, 22.6195

Monochromacy



Original Color

20.1900, 10.4466, 54.9851



Achromatopsia

8.8453, 9.3059, 10.1341



Achromatomaly

11.5004, 8.7374, 21.1590

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.1900, 10.4466, 54.9851 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(129, 42, 199)` looks like.

```
.text, #text, p{  
    color:rgb(129, 42, 199)  
}
```

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(129, 42, 199) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 42, 199) }
```

Border

The CSS property to change the border of an element to XYZ 20.1900, 10.4466, 54.9851 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(129, 42, 199) }
```


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

```
.border{ border-color:rgb(129, 42, 199) }
```

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

Here you see how a box with a 4 pixel rgb(129, 42, 199) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 42, 199); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 42, 199);  
box-shadow:4px 4px 4px 4px rgb(129, 42,  
199) }
```

Background

The CSS property to change the background color of an element to XYZ 20.1900, 10.4466, 54.9851 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 42, 199) }
```

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

```
.background{ background-color: rgb(129, 42,  
199) }
```

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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