

Converting Colors

XYZ(19.9402, 9.0226, 38.6346)

Have a look what the booklet for
XYZ(19.9402, 9.0226, 38.6346)
contains.

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Color

**XYZ(20.2046, 9.5777,
38.8140)**

Conversions

Conversions Part 1

Format	Color
Hex	9800AA
RGB	152, 0, 170
RGB Percent	60%, 0%, 67%
CMY	0.4039, 0.9999, 0.3333
CMYK	0.11, 1.00, 0.00, 0.33
HSL	294°, 100%, 33%
HSV	294°, 100%, 67%
XYZ	20.2046, 9.5777, 38.8140
YIQ	64.8280, 36.0220, 85.0940

Conversions

Conversions Part 2

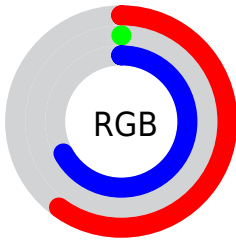
Format	Color
R_{YB}	152, 0, 170
Decimal	9961642
CIE _{Lab}	37.07, 69.64, -50.30
CIE _{LCh}	37, 85.908, 324.158
Yxy	9.5777, 0.2945, 0.1396
Android (android.graphics.Color)	4288151722 (0xFF9800AA)
YUV	64.8280, 51.8498, 76.4498
Hunter-Lab	30.9479, 62.3766, -52.6965

Details

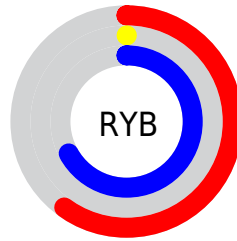
The XYZ color **20.2046, 9.5777, 38.8140** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **14.6245, 28.8783, 4.8037**, and the grayscale version is **4.9195, 5.1757, 5.6363**.

A 20% lighter version of the original color is **43.1745, 24.9299, 74.4879**, and **8.0348, 3.7712, 17.1340** is the 20% darker color. If you saturate the color by 10%, you get **20.2046, 9.5777, 38.8141**, and if you desaturate by 10%, it is **20.7450, 10.1542, 38.8969**.

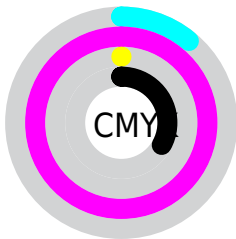
Distribution



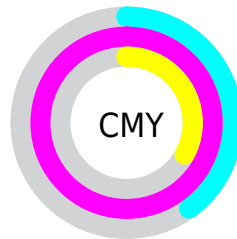
- Red (60%)
- Green (0%)
- Blue (67%)



- Red (60%)
- Yellow (0%)
- Blue (67%)



- Cyan (11%)
- Magenta (100%)
- Yellow (0%)
- Black (33%)





- Cyan (40%)
- Magenta (100%)
- Yellow (33%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.2046, 9.5777, 38.8140 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 20.2046, 9.5777, 38.8140 by changing the saturation by 10% instead.


 20.2046, 9.5777,
38.8140


 20.2046, 9.5777,
38.8140


245.8331,
187.6309, 356.5014

 12.6530, 5.1199,
26.3083


 43.2613, 24.9981,
74.5713


 7.2654, 2.3178,
16.8266


 59.4970, 36.7295,
98.6600


 3.6764, 0.7831,
9.9503


 79.3582, 51.6542,
127.4468

 1.5207, 0.0000,
5.2608

 103.2102, 70.1565,
161.3503

 0.3399, 0.0000,
2.3397

 131.4183, 92.6210,
200.7889

 0.0000, 0.0000,
0.7533

 164.3480,

 0.0000, 0.0000,

119.4320, 246.1813

0.0000

202.3644,
150.9738, 297.9459

■ 20.2046, 9.5777,
38.8140

■ 20.2046, 9.5777,
38.8140

■ 20.2046, 9.5777,
38.8141

■ 20.7450, 10.1542,
38.8969

■ 21.4614, 11.0753,
39.0370

■ 22.4232, 12.4796,
39.2573

■ 23.6617, 14.4297,
39.5685

■ 25.2035, 16.9786,
39.9792

■ 27.0721, 20.1732,
40.4973

■ 29.2884, 24.0558,
41.1299

■ 31.8720, 28.6648,
41.8834

■ 34.8406, 34.0361,
42.7637

Harmonies

Analogous

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



13.9786, 9.5777, 66.7387



20.2046, 9.5777, 38.8140



23.5918, 9.5777, 13.7128

Triad

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



20.2046, 9.5777, 38.8140



10.1876, 9.5777, 0.0000



2.5859, 9.5777, 27.6590

Complementary

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



20.2046, 9.5777, 38.8140



14.6245, 28.8783, 4.8037

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.



2.2377, 9.5777, 7.7155



20.2046, 9.5777, 38.8140



5.5181, 9.5777, 0.0000

Square

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



20.2046, 9.5777, 38.8140



16.5258, 9.5777, 0.0000



3.0637, 9.5777, 0.9520



4.3218, 9.5777, 56.9552

Rectangle

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



20.2046, 9.5777, 38.8140



23.1079, 9.5777, 4.7677



3.0637, 9.5777, 0.9520



2.3406, 9.5777, 19.3888

Sweetspot

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



20.2050, 9.5781, 38.8142



52.9017, 43.2241, 74.5568



7.5033, 3.3972, 38.2906



11.4158, 8.9676, 16.5169



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.



20.2050, 9.5781, 38.8142



36.5484, 17.3206, 70.4188



19.1193, 9.5630, 14.1593



7.7625, 7.6257, 9.4811



14.8907, 7.0598, 28.5534



0.3838, 0.1829, 0.6957

Inverse Universe

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



16.6871, 8.5901, 1.3513



30.2379, 15.5698, 2.2482



15.3342, 29.1333, 9.8427



7.5622, 7.5547, 8.0118



12.2857, 6.3230, 1.0499



0.3085, 0.1577, 0.0762

Previews

White Background



This preview shows how the XYZ color 20.2046, 9.5777, 38.8140 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



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

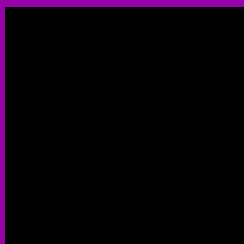
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.2046, 9.5777, 38.8140

Background



This preview shows how black text looks on a background with the XYZ color 20.2046, 9.5777, 38.8140.



This preview shows how white text looks on a background with the XYZ color 20.2046, 9.5777,

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

20.2046, 9.5777, 38.8140

Protanopia

11.9554, 10.2353, 46.1452

Deuteranopia

10.4629, 10.2144, 34.6778



Tritanopia

13.9597, 10.0447, 7.1643

Trichromacy



Original Color

20.2046, 9.5777, 38.8140



Protanomaly

10.9776, 6.7590, 42.8455



Deuteranomaly

10.8124, 7.0460, 35.9121



Tritanomaly

15.0193, 8.7186, 14.8012

Monochromacy



Original Color

20.2046, 9.5777, 38.8140



Achromatopsia

5.0244, 5.2861, 5.7565



Achromatomaly

8.1709, 5.1065, 13.3870

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.2046, 9.5777, 38.8140 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(152, 0, 170)` looks like.

```
.text, #text, p{  
    color:rgb(152, 0, 170)  
}
```

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(152, 0, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(152, 0, 170) }
```

Border

The CSS property to change the border of an element to XYZ 20.2046, 9.5777, 38.8140 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(152, 0, 170) }
```


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

```
.border{ border-color:rgb(152, 0, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(152, 0, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(152, 0, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(152, 0, 170);  
box-shadow:4px 4px 4px 4px rgb(152, 0,  
170) }
```

Background

The CSS property to change the background color of an element to XYZ 20.2046, 9.5777, 38.8140 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(152, 0, 170) }
```

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

```
.background{ background-color: rgb(152, 0,  
170) }
```

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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