

Converting Colors

XYZ(20.2920, 9.9896, 22.2415)

Have a look what the booklet for
XYZ(20.2920, 9.9896, 22.2415)
contains.

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Color

**XYZ(20.2452, 9.9635,
22.3288)**

Conversions

Conversions Part 1	
Format	Color
Hex	A80083
RGB	168, 0, 131
RGB Percent	66%, 0%, 51%
CMY	0.3412, 0.9999, 0.4863
CMYK	0.00, 1.00, 0.22, 0.34
HSL	313°, 100%, 33%
HSV	313°, 100%, 66%
XYZ	20.2452, 9.9635, 22.3288
YIQ	65.1660, 58.0770, 76.3570

Conversions

Conversions Part 2

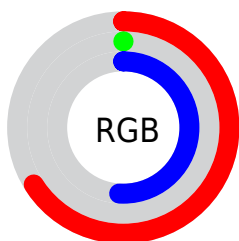
Format	Color
RYB	168, 0, 131
Decimal	11010179
CIELab	37.78, 66.81, -25.22
CIELCh	38, 71.411, 339.317
Yxy	9.9635, 0.3853, 0.1896
Android (android.graphics.Color)	4289200259 (0xFFA80083)
YUV	65.1660, 32.4562, 90.1854
Hunter-Lab	31.5650, 59.2477, -19.8457

Details

The XYZ color **20.2452, 9.9635, 22.3288** is a dark color, and the websafe version is hex **CC3399**. A complement of this color would be **14.3372, 28.1393, 6.4277**, and the grayscale version is **4.9973, 5.2575, 5.7254**.

A 20% lighter version of the original color is **43.2727, 25.6764, 48.0227**, and **8.0407, 3.9736, 8.1278** is the 20% darker color. If you saturate the color by 10%, you get **20.2450, 9.9635, 22.3273**, and if you desaturate by 10%, it is **20.6984, 10.4611, 23.7396**.

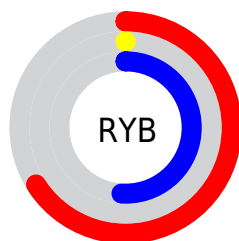
Distribution



Red (66%)

Green (0%)

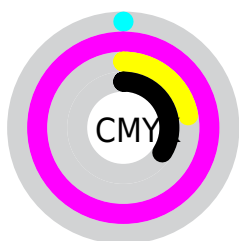
Blue (51%)



Red (66%)

Yellow (0%)

Blue (51%)

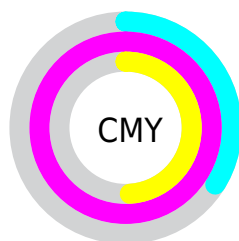


Cyan (0%)

Magenta (100%)

Yellow (22%)

Black (34%)



Cyan (34%)


Magenta (100%)

Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.2452, 9.9635, 22.3288 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 20.2452, 9.9635, 22.3288 by changing the saturation by 10% instead.


 20.2452, 9.9635,
22.3288


 20.2452, 9.9635,
22.3288


246.0478,
190.4114, 277.2679


 12.6827, 5.3748,
13.8981


 43.3287, 25.7268,
48.1980


 7.2859, 2.4688,
7.9119


 59.5804, 37.6702,
66.4735


 3.6895, 0.8609,
3.9516


 79.4593, 52.8339,
88.8677

 1.5280, 0.0000,
1.5989

 103.3306, 71.6024,
115.7991

 0.3448, 0.0000,
0.2900

 131.5598, 94.3599,
147.6863

 0.0000, 0.0000,
0.0000

 164.5121,

121.4910, 184.9478

202.5530,
153.3800, 228.0022

■ 20.2452, 9.9635,
22.3288

■ 20.2452, 9.9635,
22.3288

■ 20.2450, 9.9635,
22.3273

■ 20.6984, 10.4611,
23.7396

■ 21.3264, 11.2940,
25.2532

■ 22.1973, 12.5982,
26.8930

■ 23.3418, 14.4346,
28.6694

■ 24.7855, 16.8547,
30.5915

■ 26.5514, 19.9040,
32.6674

■ 28.6600, 23.6235,
34.9044

■ 31.1300, 28.0508,
37.3090

■ 33.9791, 33.2205,
39.8876

Harmonies

Analogous

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



16.1686, 9.9635, 44.0919



20.2452, 9.9635, 22.3288



20.9989, 9.9635, 7.2754

Triad

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



20.2452, 9.9635, 22.3288



8.1225, 9.9635, 0.0000



4.1843, 9.9635, 35.7423

Complementary

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



20.2452, 9.9635, 22.3288



14.3372, 28.1393, 6.4277

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.



3.1927, 9.9635, 15.4338



20.2452, 9.9635, 22.3288



4.9364, 9.9635, 0.6911

Square

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



20.2452, 9.9635, 22.3288



12.9100, 9.9635, 0.0000



3.4150, 9.9635, 4.1851



6.7028, 9.9635, 55.2557

Rectangle

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



20.2452, 9.9635, 22.3288



19.3351, 9.9635, 2.6217



3.4150, 9.9635, 4.1851



3.7049, 9.9635, 28.3325

Sweetspot

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



20.2455, 9.9640, 22.3290



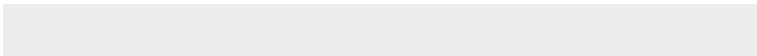
51.7750, 42.4550, 63.1024



7.8103, 3.2102, 37.2541



10.9349, 8.6337, 13.3905



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656

Same Dimension

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



20.2455, 9.9640, 22.3290



36.6540, 18.0468, 40.0774



16.6744, 8.5356, 3.5235



7.7701, 7.6379, 9.1067



15.3078, 7.5318, 16.9641



0.3895, 0.1901, 0.5027

Inverse Universe

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



20.2455, 9.9640, 22.3290



36.6540, 18.0468, 40.0774



17.4179, 29.3716, 22.6500



7.7701, 7.6379, 9.1067



15.3078, 7.5318, 16.9641



0.3895, 0.1901, 0.5027

Previews

White Background



This preview shows how the XYZ color 20.2452, 9.9635, 22.3288 looks on a white background.

Color Contrast Check

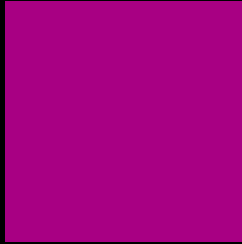
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.2452, 9.9635, 22.3288 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

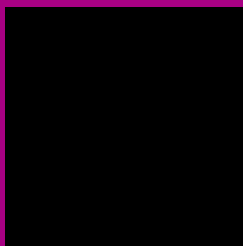
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.2452, 9.9635, 22.3288

Background



This preview shows how black text looks on a background with the XYZ color 20.2452, 9.9635, 22.3288.



This preview shows how white text looks on a background with the XYZ color 20.2452, 9.9635,

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

20.2452, 9.9635, 22.3288

Protanopia

12.6411, 10.6733, 47.8483

Deuteranopia





10.7986, 10.5814, 20.2122






Tritanopia

16.7941, 10.4037, 4.6130

Trichromacy

	Original Color 20.2452, 9.9635, 22.3288
	Protanomaly 11.1211, 7.0374, 36.8486
	Deuteranomaly 12.1685, 8.0100, 20.6434
	Tritanomaly 17.3767, 9.5894, 8.9177

Monochromacy

	Original Color 20.2452, 9.9635, 22.3288
	Achromatopsia 5.0244, 5.2861, 5.7565
	Achromatomaly 8.0756, 5.1319, 10.0161

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.2452, 9.9635, 22.3288 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(168, 0, 131)` looks like.

```
.text, #text, p{  
    color:rgb(168, 0, 131)  
}
```

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(168, 0, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 0, 131) }
```

Border

The CSS property to change the border of an element to XYZ 20.2452, 9.9635, 22.3288 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(168, 0, 131) }
```


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

```
.border{ border-color:rgb(168, 0, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 0, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 0, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 0, 131);  
box-shadow:4px 4px 4px 4px rgb(168, 0,  
131) }
```

Background

The CSS property to change the background color of an element to XYZ 20.2452, 9.9635, 22.3288 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 0, 131) }
```

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

```
.background{ background-color: rgb(168, 0,  
131) }
```

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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