

Converting Colors

XYZ(20.1844, 9.5857, 37.9789)

Have a look what the booklet for
XYZ(20.1844, 9.5857, 37.9789)
contains.

XYZ(20.2048, 9.5995, 37.8338)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(20.2048, 9.5995,
37.8338)**

Conversions

Conversions Part 1

Format	Color
Hex	9900A8
RGB	153, 0, 168
RGB Percent	60%, 0%, 66%
CMY	0.4000, 0.9999, 0.3412
CMYK	0.09, 1.00, 0.00, 0.34
HSL	295°, 100%, 33%
HSV	295°, 100%, 66%
XYZ	20.2048, 9.5995, 37.8338
YIQ	64.8990, 37.2600, 84.6840

Conversions

Conversions Part 2

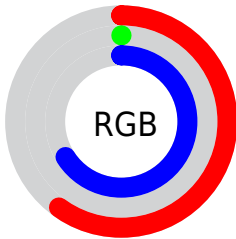
Format	Color
R_{YB}	153, 0, 168
Decimal	10027176
CIE _{Lab}	37.11, 69.47, -49.03
CIE _{LCh}	37, 85.028, 324.786
Yxy	9.5995, 0.2987, 0.1419
Android (android.graphics.Color)	4288217256 (0xFF9900A8)
YUV	64.8990, 50.8288, 77.2646
Hunter-Lab	30.9831, 62.1838, -50.7116

Details

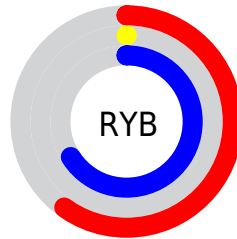
The XYZ color **20.2048, 9.5995, 37.8338** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **14.2000, 28.1071, 4.6772**, and the grayscale version is **4.9316, 5.1884, 5.6502**.

A 20% lighter version of the original color is **43.1872, 24.9680, 73.0641**, and **8.0243, 3.7792, 16.5262** is the 20% darker color. If you saturate the color by 10%, you get **20.2049, 9.5995, 37.8339**, and if you desaturate by 10%, it is **20.6876, 10.1417, 37.9131**.

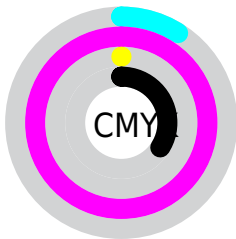
Distribution



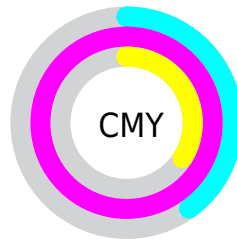
- Red (60%)
- Green (0%)
- Blue (66%)



- Red (60%)
- Yellow (0%)
- Blue (66%)



- Cyan (9%)
- Magenta (100%)
- Yellow (0%)
- Black (34%)




- Cyan (40%)
- Magenta (100%)
- Yellow (34%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.2048, 9.5995, 37.8338 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 20.2048, 9.5995, 37.8338 by changing the saturation by 10% instead.


 20.2048, 9.5995,
37.8338

 20.2048, 9.5995,
37.8338


245.8342,
187.7893, 352.1833


 12.6531, 5.1342,
25.5529


 43.2616, 25.0394,
73.0539


 7.2655, 2.3262,
16.2667


 59.4975, 36.7829,
96.8302


 3.6765, 0.7875,
9.5567


 79.3587, 51.7212,
125.2754

 1.5208, 0.0000,
5.0043

 103.2108, 70.2387,
158.8080

 0.3399, 0.0000,
2.1910

 131.4190, 92.7199,
197.8465

 0.0000, 0.0000,
0.6692

 164.3488,

 0.0000, 0.0000,

119.5491, 242.8095

0.0000

202.3654,
151.1108, 294.1156

■ 20.2048, 9.5995,
37.8338

■ 20.2048, 9.5995,
37.8338

■ 20.2049, 9.5995,
37.8339

■ 20.6876, 10.1417,
37.9131

■ 21.3396, 11.0173,
38.0478

■ 22.2290, 12.3626,
38.2606

■ 23.3862, 14.2380,
38.5616

■ 24.8370, 16.6953,
38.9594

■ 26.6042, 19.7800,
39.4617

■ 28.7081, 23.5329,
40.0752

■ 31.1677, 27.9915,
40.8062

■ 34.0002, 33.1906,
41.6604

Harmonies

Analogous

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



14.0839, 9.5995, 65.4280



20.2048, 9.5995, 37.8338



23.4541, 9.5995, 13.3278

Triad

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



20.2048, 9.5995, 37.8338



10.0795, 9.5995, 0.0000



2.6568, 9.5995, 28.0253

Complementary

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



20.2048, 9.5995, 37.8338



14.2000, 28.1071, 4.6772

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.



2.2829, 9.5995, 8.0232



20.2048, 9.5995, 37.8338



5.4913, 9.5995, 0.0000

Square

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



20.2048, 9.5995, 37.8338



16.3312, 9.5995, 0.0000



3.0837, 9.5995, 1.0482



4.4278, 9.5995, 56.8459

Rectangle

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



20.2048, 9.5995, 37.8338



22.9057, 9.5995, 4.6436



3.0837, 9.5995, 1.0482



2.4019, 9.5995, 19.7821

Sweetspot

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



20.2052, 9.5999, 37.8340



51.8649, 42.2900, 72.6543



7.2656, 3.2224, 37.2850



10.9554, 8.5924, 15.7332



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.



20.2052, 9.5999, 37.8340



36.5703, 17.3711, 68.6506



18.4881, 9.2609, 13.0752



7.7749, 7.6321, 9.4817



15.2800, 7.2606, 28.5716



0.3903, 0.1862, 0.6960

Inverse Universe

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



16.2350, 8.3597, 1.2103



29.4263, 15.1557, 2.0168



15.0223, 28.4132, 10.0356



7.5573, 7.5528, 7.9860



12.2686, 6.3162, 0.9603



0.3067, 0.1569, 0.0664

Previews

White Background



This preview shows how the XYZ color 20.2048, 9.5995, 37.8338 looks on a white background.

Color Contrast Check

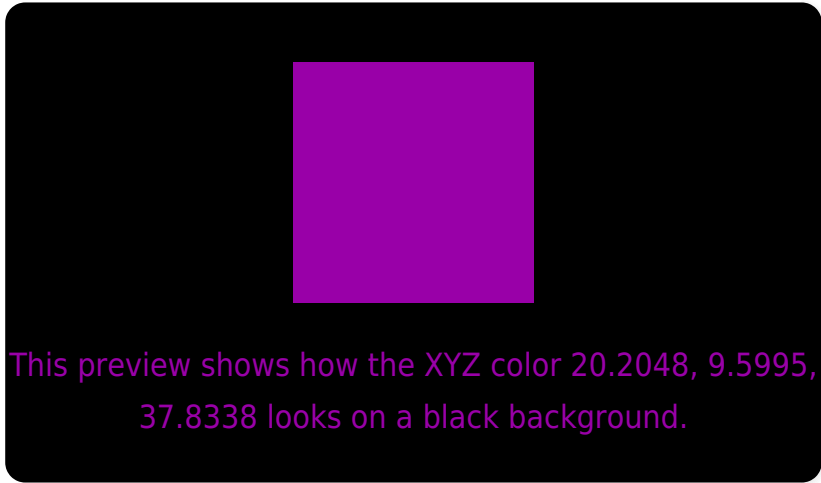
Large Text (above 18pt) WCAG AA ✓ Pass

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

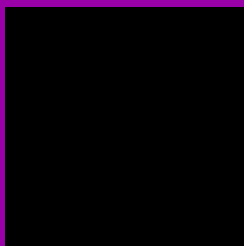
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.2048, 9.5995, 37.8338

Background



This preview shows how black text looks on a background with the XYZ color 20.2048, 9.5995, 37.8338.



This preview shows how white text looks on a background with the XYZ color 20.2048, 9.5995,

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

20.2048, 9.5995, 37.8338

Protanopia

11.9554, 10.2353, 46.1452

Deuteranopia

10.5083, 10.2579, 33.7739



Tritanopia

14.0382, 10.0013, 6.9849

Trichromacy



Original Color

20.2048, 9.5995, 37.8338



Protanomaly

11.0330, 6.7875, 42.8481



Deuteranomaly

11.0151, 7.1712, 34.9860



Tritanomaly

15.1065, 8.7163, 14.5219

Monochromacy



Original Color

20.2048, 9.5995, 37.8338



Achromatopsia

5.0244, 5.2861, 5.7565



Achromatomaly

8.1210, 5.0866, 13.1242

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.2048, 9.5995, 37.8338 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(153, 0, 168)` looks like.

```
.text, #text, p{  
    color:rgb(153, 0, 168)  
}
```

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(153, 0, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(153, 0, 168) }
```

Border

The CSS property to change the border of an element to XYZ 20.2048, 9.5995, 37.8338 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(153, 0, 168) }
```


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

```
.border{ border-color:rgb(153, 0, 168) }
```

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

Here you see how a box with a 4 pixel rgb(153, 0, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(153, 0, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(153, 0, 168);  
box-shadow:4px 4px 4px 4px rgb(153, 0,  
168) }
```

Background

The CSS property to change the background color of an element to XYZ 20.2048, 9.5995, 37.8338 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(153, 0, 168) }
```

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

```
.background{ background-color: rgb(153, 0,  
168) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor