

Converting Colors

XYZ(20.1779, 11.2510, 37.9408)

Have a look what the booklet for
XYZ(20.1779, 11.2510, 37.9408)
contains.

XYZ(20.1988, 11.2268, 38.1482)	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(20.1988, 11.2268,
38.1482)**

Conversions

Conversions Part 1

Format	Color
Hex	9331A8
RGB	147, 49, 168
RGB Percent	58%, 19%, 66%
CMY	0.4235, 0.8078, 0.3412
CMYK	0.12, 0.71, 0.00, 0.34
HSL	289°, 55%, 43%
HSV	289°, 71%, 66%
XYZ	20.1988, 11.2268, 38.1482
YIQ	91.8680, 20.2090, 57.7850

Conversions

Conversions Part 2

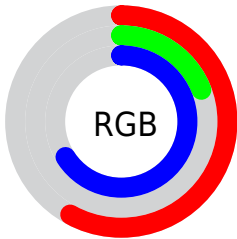
Format	Color
R_{YB}	147, 49, 168
Decimal	9646504
CIE _{Lab}	39.96, 57.17, -44.51
CIE _{LCh}	40, 72.456, 322.097
Yxy	11.2268, 0.2903, 0.1614
Android (android.graphics.Color)	4287836584 (0xFF9331A8)
YUV	91.8680, 37.5331, 48.3508
Hunter-Lab	33.5064, 48.9696, -44.0492

Details

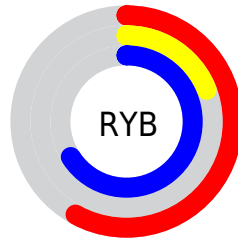
The XYZ color **20.1988, 11.2268, 38.1482** is a dark color, and the websafe version is hex **993399**. A complement of this color would be **17.0831, 29.5294, 7.7055**, and the grayscale version is **10.0561, 10.5798, 11.5214**.

A 20% lighter version of the original color is **43.3067, 28.1198, 73.6662**, and **7.5081, 3.5131, 16.5020** is the 20% darker color. If you saturate the color by 10%, you get **19.0980, 9.8038, 37.9317**, and if you desaturate by 10%, it is **21.5761, 13.1815, 38.4531**.

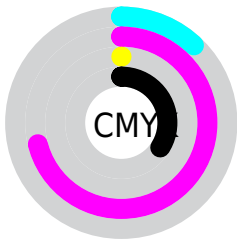
Distribution



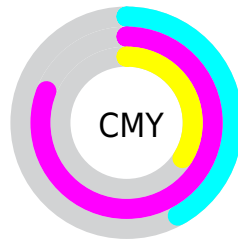
- Red (58%)
- Green (19%)
- Blue (66%)



- Red (58%)
- Yellow (19%)
- Blue (66%)



- Cyan (12%)
- Magenta (71%)
- Yellow (0%)
- Black (34%)



- Cyan (42%)
- Magenta (81%)
- Yellow (34%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.1988, 11.2268, 38.1482 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 20.1988, 11.2268, 38.1482 by changing the saturation by 10% instead.

■ 20.1988, 11.2268,
38.1482

■ 20.1988, 11.2268,
38.1482

245.8024,
199.2170, 353.5725

■ 12.6487, 6.2196,
25.7950

■ 43.2516, 28.0788,
73.5412

■ 7.2624, 2.9791,
16.4460

■ 59.4851, 40.6924,
97.4180

■ 3.6746, 1.1208,
9.6825

■ 79.3438, 56.6102,
125.9732

■ 1.5197, 0.0000,
5.0861

■ 103.1930, 76.2167,
159.6252

■ 0.3392, 0.0000,
2.2383

■ 131.3981, 99.8962,
198.7926

■ 0.0000, 0.0000,
0.6963

■ 164.3245,

■ 0.0000, 0.0000,

128.0332, 243.8939

0.0000

202.3375,
161.0120, 295.3477

■ 20.1988, 11.2268,
38.1482

■ 20.1988, 11.2268,
38.1482

■ 19.0980, 9.8038,
37.9317

■ 21.5761, 13.1815,
38.4531

■ 18.2413, 8.8494,
37.7927

■ 23.2547, 15.7188,
38.8543

■ 17.6078, 8.2607,
37.7124

■ 25.2582, 18.8850,
39.3599

■ 27.6072, 22.7216,
39.9766

■ 30.3207, 27.2663,
40.7108

■ 33.4162, 32.5541,
41.5683

■ 36.9103, 38.6175,
42.5545

■ 40.8182, 45.4874,
43.6746

■ 45.1545, 53.1926,
44.9333

Harmonies

Analogous

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



14.7122, 11.2268, 59.6142



20.1988, 11.2268, 38.1482



23.3105, 11.2268, 16.4153

Triad

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



20.1988, 11.2268, 38.1482



12.0483, 11.2268, 0.0000



4.0107, 11.2268, 25.7858

Complementary

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



20.1988, 11.2268, 38.1482



17.0831, 29.5294, 7.7055

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.



3.6989, 11.2268, 8.8149



20.1988, 11.2268, 38.1482



7.4468, 11.2268, 0.1232

Square

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



20.1988, 11.2268, 38.1482



17.7354, 11.2268, 0.8198



4.7395, 11.2268, 1.9105



5.7864, 11.2268, 49.3739

Rectangle

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



20.1988, 11.2268, 38.1482



23.1054, 11.2268, 7.3134



4.7395, 11.2268, 1.9105



3.7595, 11.2268, 18.9513

Sweetspot

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



20.1993, 11.2273, 38.1484



54.7303, 48.9867, 73.7959



10.5765, 7.9638, 38.0257



11.6344, 10.1806, 16.0040



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.



20.1993, 11.2273, 38.1484



33.7151, 16.7022, 68.6720



21.2977, 12.1421, 22.4523



7.7101, 7.5987, 9.4787



13.3352, 6.2580, 28.4806



0.3575, 0.1693, 0.6945

Inverse Universe

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



18.3526, 10.9640, 6.9438



30.8219, 16.5794, 6.6974



16.9770, 29.3415, 13.7184



7.5832, 7.5631, 8.1221



12.3822, 6.3616, 1.5584



0.3164, 0.1608, 0.1177

Previews

White Background



This preview shows how the XYZ color 20.1988, 11.2268, 38.1482 looks on a white background.

Color Contrast Check

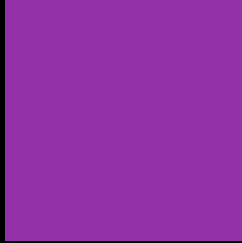
Large Text (above 18pt) WCAG AA ✓ Pass

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 20.1988, 11.2268, 38.1482 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

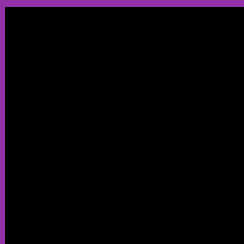
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.1988, 11.2268, 38.1482

Background



This preview shows how black text looks on a background with the XYZ color 20.1988, 11.2268, 38.1482.



This preview shows how white text looks on a background with the XYZ color 20.1988, 11.2268,

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

20.1988, 11.2268, 38.1482

Protanopia

13.5648, 11.5493, 52.5532

Deuteranopia

11.7947, 11.5568, 34.8667



Tritanopia

14.4391, 11.3076, 9.6052

Trichromacy



Original Color

20.1988, 11.2268, 38.1482



Protanomaly

12.8096, 9.4285, 47.0437



Deuteranomaly

13.1532, 10.1676, 35.9196



Tritanomaly

15.8596, 10.8047, 17.1692

Monochromacy



Original Color

20.1988, 11.2268, 38.1482



Achromatopsia

10.1725, 10.7023, 11.6548



Achromatomaly

12.6567, 9.9697, 19.0266

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.1988, 11.2268, 38.1482 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(147, 49, 168)` looks like.

```
.text, #text, p{  
    color:rgb(147, 49, 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(147, 49, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(147, 49, 168) }
```

Border

The CSS property to change the border of an element to XYZ 20.1988, 11.2268, 38.1482 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(147, 49, 168) }
```


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

```
.border{ border-color:rgb(147, 49, 168) }
```

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

Here you see how a box with a 4 pixel `rgb(147, 49, 168)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(147, 49, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(147, 49, 168);  
box-shadow:4px 4px 4px 4px rgb(147, 49,  
168) }
```

Background

The CSS property to change the background color of an element to XYZ 20.1988, 11.2268, 38.1482 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(147, 49, 168) }
```

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

```
.background{ background-color: rgb(147, 49,  
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