

# Converting Colors

XYZ(38.0746, 21.6990, 96.7893)

Have a look what the booklet for  
XYZ(38.0746, 21.6990, 96.7893)  
contains.

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# Color

**XYZ(38.0796, 21.6962,  
96.7885)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AD4FFF
RGB	173, 79, 255
RGB Percent	68%, 31%, 100%
CMY	0.3216, 0.6902, 0.0000
CMYK	0.32, 0.69, 0.00, 0.00
HSL	272°, 100%, 65%
HSV	272°, 69%, 100%
XYZ	38.0796, 21.6962, 96.7885
YIQ	127.1700, -0.4720, 74.6640

# Conversions

## Conversions Part 2

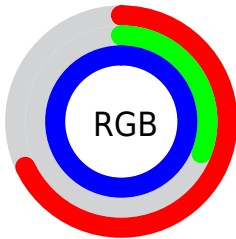
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	173, 79, 255
Decimal	11358207
CIE <sub>Lab</sub>	53.70, 68.15, -72.12
CIE <sub>LCh</sub>	54, 99.232, 313.379
Yxy	21.6962, 0.2432, 0.1386
Android (android.graphics.Color)	4289548287 (0xFFAD4FFF)
YUV	127.1700, 63.0202, 40.1929
Hunter-Lab	46.5792, 64.4145, -90.5953

# Details

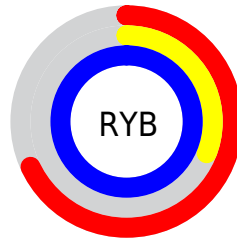
The XYZ color **38.0796, 21.6962, 96.7885** is a light color, and the websafe version is hex **9933FF**. The color can be described as light washed purple. A complement of this color would be **51.8689, 79.6614, 20.0399**, and the grayscale version is **20.0226, 21.0653, 22.9401**.

A 20% lighter version of the original color is **60.1794, 41.5938, 99.4644**, and **17.1614, 7.8965, 53.4430** is the 20% darker color. If you saturate the color by 10%, you get **34.0690, 17.4021, 96.1711**, and if you desaturate by 10%, it is **43.0306, 27.5219, 97.6520**.

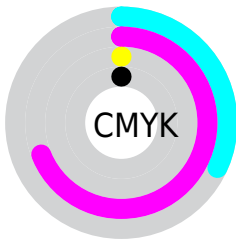
# Distribution



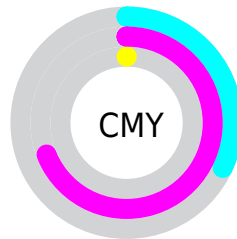
- Red (68%)
- Green (31%)
- Blue (100%)



- Red (68%)
- Yellow (31%)
- Blue (100%)



- Cyan (32%)
- Magenta (69%)
- Yellow (0%)
- Black (0%)




- Cyan (32%)
- Magenta (69%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 38.0796, 21.6962, 96.7885 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 38.0796, 21.6962, 96.7885 by changing the saturation by 10% instead.





 38.0796, 21.6962,  
96.7885


 38.0796, 21.6962,  
96.7885

329.2363,  
260.9556, 571.0049


 26.2220, 13.6338,  
73.0194


 71.5332, 46.2434,  
158.7500


 17.1233, 7.8664,  
53.4999


 93.8600, 63.4970,  
197.7793


 10.4183, 4.0096,  
37.8115


 120.4071, 84.5831,  
242.7325

 5.7416, 1.6789,  
25.5357

 151.5400,  
109.8862, 294.0281

 2.7277, 0.4100,  
16.2540

 187.6240,  
139.7906, 352.0846

 1.0115, 0.0000,  
9.5478

229.0245,

 0.0000, 0.0000,

174.6807, 417.3205

4.9985

276.1068,  
214.9409, 490.1545

■ 0.0000, 0.0000,  
2.1877

■ 0.0000, 0.0000,  
0.6672

■ 38.0796, 21.6962,  
96.7885

■ 38.0796, 21.6962,  
96.7885

■ 34.0690, 17.4021,  
96.1711

■ 43.0306, 27.5219,  
97.6520

■ 30.9042, 14.4631,  
95.7706

■ 48.9972, 35.0243,  
98.7857

■ 28.4533, 12.6234,  
95.5446

■ 56.0491, 44.3336,  
100.2109

■ 28.2355, 12.4708,  
95.5267

■ 64.2486, 55.5662,  
101.9468

■ 73.6527, 68.8284,  
104.0110

■ 84.3145, 84.2185,  
106.4197

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



25.7201, 21.6962, 138.5314



38.0796, 21.6962, 96.7885



47.0510, 21.6962, 44.6267

# Triad

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



38.0796, 21.6962, 96.7885



27.0358, 21.6962, 0.0000



6.4464, 21.6962, 39.9160

# Complementary

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



38.0796, 21.6962, 96.7885



51.8689, 79.6614, 20.0399

# 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.



6.5852, 21.6962, 10.5271



38.0796, 21.6962, 96.7885



16.2457, 21.6962, 0.0000

# Square

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



38.0796, 21.6962, 96.7885



39.3232, 21.6962, 1.9163



9.5306, 21.6962, 1.5102



9.0503, 21.6962, 90.9173



# Rectangle

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



38.0796, 21.6962, 96.7885



48.4834, 21.6962, 20.3395



9.5306, 21.6962, 1.5102



6.2103, 21.6962, 27.2432

# Sweetspot

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



38.0806, 21.6969, 96.7886



71.6914, 66.0349, 103.5752



34.0430, 34.4191, 99.4570



14.7772, 13.3304, 22.0441



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.



38.0806, 21.6969, 96.7886



32.7133, 16.0806, 95.9874



61.1558, 33.7001, 93.0132



17.9296, 17.8554, 22.7514



14.9278, 6.6061, 49.9229



1.5796, 0.7082, 4.8667



# Inverse Universe

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



50.4690, 29.4254, 36.7369



46.9958, 24.9650, 27.9156



40.6191, 73.8361, 20.6779



18.3615, 18.1279, 20.5210



23.3562, 11.8318, 10.5264

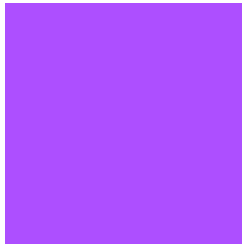


2.3287, 1.1738, 1.3122



# Previews

## White Background



This preview shows how the XYZ color 38.0796, 21.6962, 96.7885 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

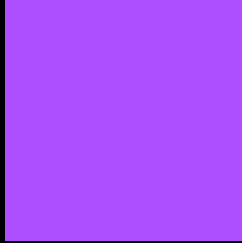
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 38.0796, 21.6962, 96.7885 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

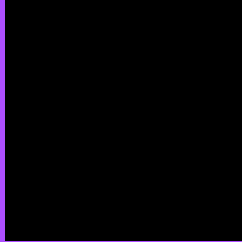
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 38.0796, 21.6962, 96.7885**

## **Background**



This preview shows how black text looks on a background with the XYZ color 38.0796, 21.6962, 96.7885.



This preview shows how white text looks on a background with the XYZ color 38.0796, 21.6962,



# 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

38.0796, 21.6962, 96.7885

### Protanopia

26.0944, 22.0666, 97.4917

### Deuteranopia

22.2592, 21.8897, 77.1807



## Tritanopia

23.2566, 21.5020, 23.6934

# Trichromacy



## Original Color

38.0796, 21.6962, 96.7885



## Protanomaly

27.4371, 20.0198, 97.0259



## Deuteranomaly

23.2767, 18.8181, 83.2944



## Tritanomaly

26.8900, 20.4674, 43.0908

# Monochromacy



## Original Color

38.0796, 21.6962, 96.7885



## Achromatopsia

20.1725, 21.2231, 23.1119



## Achromatomaly

24.7175, 20.1371, 42.6285

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 38.0796, 21.6962, 96.7885 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(173, 79, 255)` looks like.

```
.text, #text, p{  
    color:rgb(173, 79, 255)  
}
```

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(173, 79, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(173, 79, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 38.0796, 21.6962, 96.7885 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(173, 79, 255) }
```



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

```
.border{ border-color:rgb(173, 79, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(173, 79, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(173, 79, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(173, 79, 255);  
box-shadow:4px 4px 4px 4px rgb(173, 79,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 38.0796, 21.6962, 96.7885 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(173, 79, 255) }
```

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

```
.background{ background-color: rgb(173, 79,  
255) }
```

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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