

# Converting Colors

XYZ(77.3602, 47.4463,  
212.5400)

Have a look what the booklet for  
XYZ(77.3602, 47.4463, 212.5400)  
contains.

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# Color

**XYZ(55.6815, 38.6682,  
99.1367)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DC83FF
RGB	220, 131, 255
RGB Percent	86%, 51%, 100%
CMY	0.1372, 0.4863, 0.0000
CMYK	0.14, 0.49, 0.00, 0.00
HSL	283°, 100%, 76%
HSV	283°, 49%, 100%
XYZ	55.6815, 38.6682, 99.1367
YIQ	171.7470, 13.2400, 57.4320

# Conversions

## Conversions Part 2

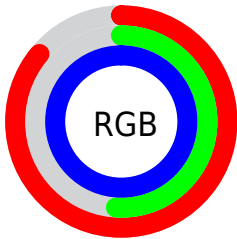
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">220, 131, 255</a>
Decimal	<a href="#">14451711</a>
CIELab	<a href="#">68.51, 54.10, -48.14</a>
CIElCh	<a href="#">69, 72.417, 318.339</a>
Yxy	<a href="#">38.6682, 0.2878, 0.1998</a>
Android (android.graphics.Color)	<a href="#">4292641791 (0xFFDC83FF)</a>
YUV	<a href="#">171.7470, 41.0437, 42.3179</a>
Hunter-Lab	<a href="#">62.1838, 51.0135, -50.9947</a>

# Details

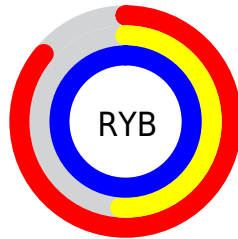
The XYZ color **55.6815, 38.6682, 99.1367** is a light color, and the websafe version is hex **FF99FF**. A complement of this color would be **55.5833, 81.2660, 34.2306**, and the grayscale version is **38.8807, 40.9056, 44.5462**.

A 20% lighter version of the original color is **76.8489, 63.5978, 102.8330**, and **28.0217, 17.3125, 55.2908** is the 20% darker color. If you saturate the color by 10%, you get **50.5372, 31.5432, 98.0326**, and if you desaturate by 10%, it is **61.7649, 47.5299, 100.5266**.

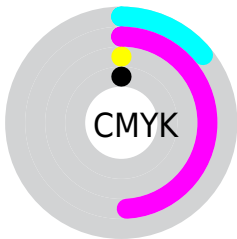
# Distribution



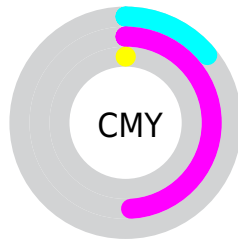
- Red (86%)
- Green (51%)
- Blue (100%)



- Red (86%)
- Yellow (51%)
- Blue (100%)



- Cyan (14%)
- Magenta (49%)
- Yellow (0%)
- Black (0%)




- Cyan (14%)
- Magenta (49%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 55.6815, 38.6682, 99.1367 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 55.6815, 38.6682, 99.1367 by changing the saturation by 10% instead.




 55.6815, 38.6682,  
99.1367


 55.6815, 38.6682,  
99.1367


398.5846,  
340.4778, 578.6443


 40.1836, 26.5017,  
74.9669


 97.6813, 73.1312,  
162.0118

 27.8666, 17.1993,  
55.0842


 124.9138, 96.1964,  
201.5542

 18.3651, 10.3767,  
39.0701


 156.7887,  
123.6634, 247.0579

 11.3137, 5.6494,  
26.5060

193.6712,  
155.9165, 298.9414

 6.3471, 2.6331,  
16.9734

235.9267,  
193.3401, 357.6232

 3.0999, 0.9433,  
10.0538

283.9205,

 1.2068, 0.0000,

236.3185, 423.5220

5.3286

338.0180,  
285.2363, 497.0562

■ 0.1117, 0.0000,  
2.3792

■ 0.0000, 0.0000,  
0.7751

■ 55.6815, 38.6682,  
99.1367

■ 55.6815, 38.6682,  
99.1367

■ 50.5372, 31.5432,  
98.0326

■ 61.7649, 47.5299,  
100.5266

■ 46.2638, 26.0237,  
97.1924

■ 68.8410, 58.2373,  
102.2204

■ 42.7898, 21.9671,  
96.5925

■ 76.9641, 70.8959,  
104.2356

■ 40.0290, 19.2030,  
96.2045

■ 86.1828, 85.6017,  
106.5882

■ 37.8590, 17.4884,  
95.9879

95.0500, 100.0000,  
108.9000

■ 37.5848, 17.2906,  
95.9642

# Harmonies

## Analogous

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



44.0900, 38.6682, 134.2237



55.6815, 38.6682, 99.1367



62.6712, 38.6682, 56.1093

# Triad

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



55.6815, 38.6682, 99.1367



41.3640, 38.6682, 5.6926



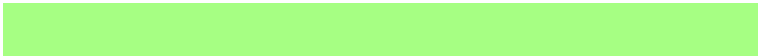
19.6258, 38.6682, 65.1042

# Complementary

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



55.6815, 38.6682, 99.1367



55.5833, 81.2660, 34.2306

# 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.



19.1941, 38.6682, 30.6463



55.6815, 38.6682, 99.1367



30.2787, 38.6682, 6.2058

# Square

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



55.6815, 38.6682, 99.1367



53.3339, 38.6682, 10.4624



22.6888, 38.6682, 12.6419



24.0230, 38.6682, 108.5719



# Rectangle

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



55.6815, 38.6682, 99.1367



62.9867, 38.6682, 33.6395



22.6888, 38.6682, 12.6419



19.0513, 38.6682, 51.8791

# Sweetspot

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



55.6828, 38.6698, 99.1369



80.1775, 75.9865, 105.0488



41.0717, 39.3677, 100.0417



16.7576, 15.6237, 22.3824



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.



55.6828, 38.6698, 99.1369



50.8329, 31.9406, 98.0937



63.3791, 43.1026, 78.4757



18.2636, 18.0276, 22.7670



19.7924, 9.1138, 50.1506



2.0341, 0.9425, 4.8880



# Inverse Universe

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



56.2400, 40.2470, 40.8815



51.9205, 33.9612, 32.1874



51.2811, 78.8098, 44.7981



18.2201, 18.0714, 19.7762



22.2142, 11.3750, 4.5123

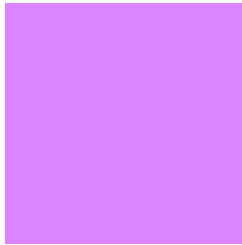


2.2073, 1.1253, 0.6728



# Previews

## White Background



This preview shows how the XYZ color 55.6815, 38.6682, 99.1367 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

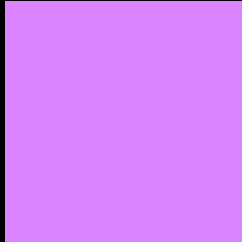
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 55.6815, 38.6682, 99.1367 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

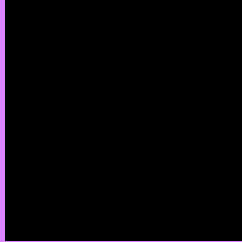
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 55.6815, 38.6682, 99.1367**

## **Background**



This preview shows how black text looks on a background with the XYZ color 55.6815, 38.6682, 99.1367.



This preview shows how white text looks on a background with the XYZ color 55.6815, 38.6682,



# 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

55.6815, 38.6682, 99.1367

### Protanopia

41.3366, 39.1986, 99.9952

### Deuteranopia

40.0952, 38.9553, 94.2128



## Tritanopia

43.8242, 38.7282, 40.2875

# Trichromacy



## Original Color

55.6815, 38.6682, 99.1367



## Protanomaly

44.9583, 38.0018, 99.5733



## Deuteranomaly

44.1137, 37.6400, 96.2070



## Tritanomaly

47.3548, 38.2791, 57.7161

# Monochromacy



## Original Color

55.6815, 38.6682, 99.1367



## Achromatopsia

39.2122, 41.2543, 44.9259



## Achromatomaly

43.7039, 39.1970, 61.1395

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 55.6815, 38.6682, 99.1367 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(220, 131, 255)` looks like.

```
.text, #text, p{  
    color:rgb(220, 131, 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(220, 131, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 131, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 55.6815, 38.6682, 99.1367 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(220, 131, 255) }
```



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

```
.border{ border-color:rgb(220, 131, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 131, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 131, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 131, 255);  
box-shadow:4px 4px 4px 4px rgb(220, 131,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 55.6815, 38.6682, 99.1367 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 131, 255) }
```

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

```
.background{ background-color: rgb(220,  
131, 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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