

Converting Colors

XYZ(38.7706, 18.2380, 80.8346)

Have a look what the booklet for
XYZ(38.7706, 18.2380, 80.8346)
contains.

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Color

**XYZ(38.6935, 18.1982,
80.8301)**

Conversions

Conversions Part 1

Format	Color
Hex	C700EC
RGB	199, 0, 236
RGB Percent	78%, 0%, 93%
CMY	0.2196, 0.9999, 0.0745
CMYK	0.16, 1.00, 0.00, 0.07
HSL	291°, 100%, 46%
HSV	291°, 100%, 93%
XYZ	38.6935, 18.1982, 80.8301
YIQ	86.4050, 42.8480, 115.5840

Conversions

Conversions Part 2

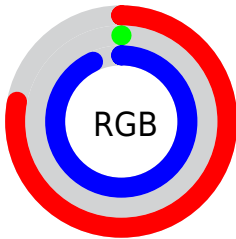
Format	Color
R_{YB}	199, 0, 236
Decimal	13041900
CIE _{Lab}	49.74, 87.23, -67.76
CIE _{LCh}	50, 110.450, 322.161
Yxy	18.1982, 0.2810, 0.1321
Android (android.graphics.Color)	4291231980 (0xFFC700EC)
YUV	86.4050, 73.7503, 98.7458
Hunter-Lab	42.6593, 87.2518, -82.4800

Details

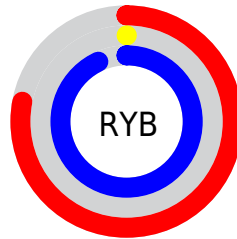
The XYZ color **38.6935, 18.1982, 80.8301** is a dark color, and the websafe version is hex **CC33FF**. The color can be described as middle washed magenta. A complement of this color would be **30.7591, 60.3847, 10.0347**, and the grayscale version is **8.7755, 9.2325, 10.0542**.

A 20% lighter version of the original color is **63.2927, 36.4854, 98.3142**, and **18.7841, 8.7436, 43.3455** is the 20% darker color. If you saturate the color by 10%, you get **38.6935, 18.1982, 80.8304**, and if you desaturate by 10%, it is **40.0068, 19.3485, 80.9832**.

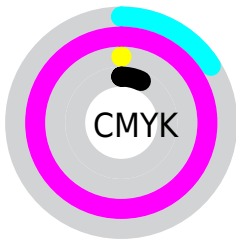
Distribution



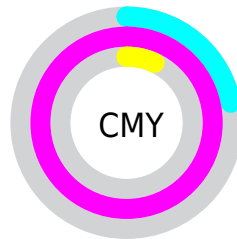
- Red (78%)
- Green (0%)
- Blue (93%)



- Red (78%)
- Yellow (0%)
- Blue (93%)



- Cyan (16%)
- Magenta (100%)
- Yellow (0%)
- Black (7%)





- Cyan (22%)
- Magenta (100%)
- Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 38.6935, 18.1982, 80.8301 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 38.6935, 18.1982, 80.8301 by changing the saturation by 10% instead.

 38.6935, 18.1982,
80.8301


 38.6935, 18.1982,
80.8301

331.8153,
241.9858, 517.5063

 26.7010, 11.0924,
59.8715


 72.4669, 40.3748,
136.3541


 17.4842, 6.1290,
42.8904


 94.9786, 56.2143,
171.7566


 10.6778, 2.9237,
29.4684

 121.7274, 75.7339,
212.8108

 5.9163, 1.0920,
19.1868

 153.0786, 99.3178,
259.9352

 2.8344, 0.0000,
11.6272

 189.3976,
127.3506, 313.5485

 1.0668, 0.0000,
6.3709

 231.0499,

 0.0000, 0.0000,

160.2166, 374.0690

2.9995

278.4006,
198.3002, 441.9154

■ 0.0000, 0.0000,
1.0944

■ 0.0000, 0.0000,
0.0000

■ 38.6935, 18.1982,
80.8301

■ 38.6935, 18.1982,
80.8301

■ 38.6935, 18.1982,
80.8304

■ 40.0068, 19.3485,
80.9832

■ 41.7311, 21.2860,
81.2663

■ 43.9895, 24.2560,
81.7206

■ 46.8542, 28.4023,
82.3699

■ 50.3857, 33.8458,
83.2344

■ 54.6370, 40.6923,
84.3319

■ 59.6557, 49.0366,
85.6780

■ 65.4851, 58.9653,
87.2872

■ 72.1653, 70.5583,
89.1728

Harmonies

Analogous

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



26.1037, 18.1982, 136.4546



38.6935, 18.1982, 80.8301



46.0696, 18.1982, 28.8128

Triad

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



38.6935, 18.1982, 80.8301



20.2050, 18.1982, 0.0000



4.5127, 18.1982, 50.6832

Complementary

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



38.6935, 18.1982, 80.8301



30.7591, 60.3847, 10.0347

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.



4.0005, 18.1982, 12.9172



38.6935, 18.1982, 80.8301



10.7338, 18.1982, 0.0000

Square

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



38.6935, 18.1982, 80.8301



32.9091, 18.1982, 0.0000



5.7355, 18.1982, 1.2890



7.6190, 18.1982, 109.8063

Rectangle

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



38.6935, 18.1982, 80.8301



45.5625, 18.1982, 9.9452



5.7355, 18.1982, 1.2890



4.1011, 18.1982, 34.6947

Sweetspot

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



38.6944, 18.1989, 80.8305



71.0343, 58.3159, 102.1199



15.8776, 7.5302, 79.9738



14.6386, 11.5346, 21.7048



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.



38.6944, 18.1989, 80.8305



46.0804, 21.6702, 96.3618



40.7072, 20.2792, 33.8191



15.4694, 15.1873, 19.0384



21.4193, 10.0780, 44.5593



1.7443, 0.8235, 3.5019

Inverse Universe

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



34.9265, 17.9670, 3.3786



41.6227, 21.4131, 3.9450



31.3953, 60.5511, 17.3686



15.1617, 15.0926, 16.1371



19.2820, 9.9155, 2.0205



1.5433, 0.7903, 0.3123

Previews

White Background



This preview shows how the XYZ color 38.6935, 18.1982, 80.8301 looks on a white background.

Color Contrast Check

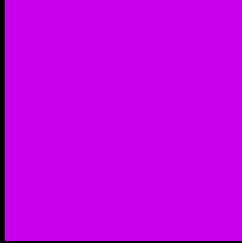
Large Text (above 18pt) WCAG AA ✓ Pass

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 38.6935, 18.1982, 80.8301 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

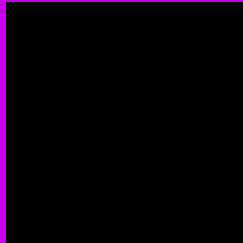
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 38.6935, 18.1982, 80.8301

Background



This preview shows how black text looks on a background with the XYZ color 38.6935, 18.1982, 80.8301.



This preview shows how white text looks on a background with the XYZ color 38.6935, 18.1982,

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

38.6935, 18.1982, 80.8301

Protanopia

22.5745, 19.0224, 88.0698

Deuteranopia

19.2253, 18.8254, 66.9104



Tritanopia

25.1353, 18.3789, 14.0271

Trichromacy



Original Color

38.6935, 18.1982, 80.8301



Protanomaly

20.9985, 12.6261, 84.5494



Deuteranomaly

18.7162, 12.1542, 71.1716



Tritanomaly

27.7278, 15.9892, 30.0586

Monochromacy



Original Color

38.6935, 18.1982, 80.8301



Achromatopsia

8.8453, 9.3059, 10.1341



Achromatomaly

14.9263, 9.1675, 26.1821

CSS Examples

Text

The CSS property to change the color of the text to XYZ 38.6935, 18.1982, 80.8301 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(199, 0, 236)` looks like.

```
.text, #text, p{  
    color:rgb(199, 0, 236)  
}
```

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(199, 0, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 0, 236) }
```

Border

The CSS property to change the border of an element to XYZ 38.6935, 18.1982, 80.8301 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(199, 0, 236) }
```


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

```
.border{ border-color:rgb(199, 0, 236) }
```

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

Here you see how a box with a 4 pixel rgb(199, 0, 236) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 0, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 0, 236);  
box-shadow:4px 4px 4px 4px rgb(199, 0,  
236) }
```

Background

The CSS property to change the background color of an element to XYZ 38.6935, 18.1982, 80.8301 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 0, 236) }
```

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

```
.background{ background-color: rgb(199, 0,  
236) }
```

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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