

Converting Colors

XYZ(36.8436, 21.8537, 80.8748)

Have a look what the booklet for
XYZ(36.8436, 21.8537, 80.8748)
contains.

XYZ(36.9110, 21.8880, 80.8766)	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(36.9110, 21.8880,
80.8766)**

Conversions

Conversions Part 1

Format	Color
Hex	B453EB
RGB	180, 83, 235
RGB Percent	71%, 33%, 92%
CMY	0.2941, 0.6745, 0.0784
CMYK	0.23, 0.65, 0.00, 0.08
HSL	278°, 79%, 62%
HSV	278°, 65%, 92%
XYZ	36.9110, 21.8880, 80.8766
YIQ	129.3310, 9.0200, 67.8360

Conversions

Conversions Part 2

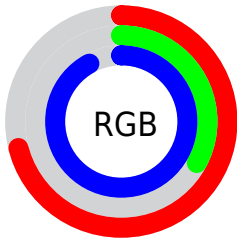
Format	Color
R _Y B	180, 83, 235
Decimal	11817963
CIE Lab	53.91, 63.46, -60.60
CIE LCh	54, 87.746, 316.323
Yxy	21.8880, 0.2643, 0.1567
Android (android.graphics.Color)	4290008043 (0xFFB453EB)
YUV	129.3310, 52.0948, 44.4367
Hunter-Lab	46.7846, 58.9556, -69.7454

Details

The XYZ color **36.9110, 21.8880, 80.8766** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted purple. A complement of this color would be **41.7514, 65.4449, 18.6160**, and the grayscale version is **20.8040, 21.8874, 23.8354**.

A 20% lighter version of the original color is **62.7351, 43.7477, 99.7454**, and **16.3488, 7.9257, 42.7876** is the 20% darker color. If you saturate the color by 10%, you get **33.4890, 17.8922, 80.2861**, and if you desaturate by 10%, it is **41.0654, 27.1661, 81.6768**.

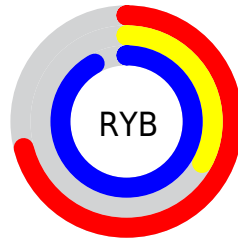
Distribution



Red (71%)

Green (33%)

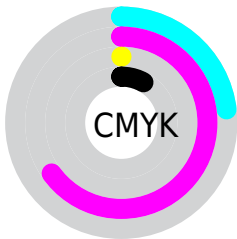
Blue (92%)



Red (71%)

Yellow (33%)

Blue (92%)

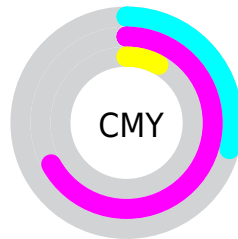


Cyan (23%)

Magenta (65%)

Yellow (0%)

Black (8%)



Cyan (29%)


Magenta (67%)


Yellow (8%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 36.9110, 21.8880, 80.8766 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 36.9110, 21.8880, 80.8766 by changing the saturation by 10% instead.


 36.9110, 21.8880,
80.8766

 36.9110, 21.8880,
80.8766


324.2873,
261.9608, 517.6666

 25.3119, 13.7746,
59.9096


 69.7506, 46.5608,
136.4200


 16.4396, 7.9641,
42.9209


 91.7219, 63.8890,
171.8334

 9.9286, 4.0720,
29.4921


 117.8812, 85.0577,
212.8994

 5.4135, 1.7139,
19.2047

 148.5941,
110.4511, 260.0365

 2.5291, 0.4326,
11.6399

184.2258,
140.4538, 313.6632

 0.9100, 0.0000,
6.3795

225.1416,

 0.0000, 0.0000,

175.4500, 374.1981

3.0047

271.7070,
215.8242, 442.0597

■ 0.0000, 0.0000,
1.0970

■ 0.0000, 0.0000,
0.0000

■ 36.9110, 21.8880,
80.8766

■ 36.9110, 21.8880,
80.8766

■ 33.4890, 17.8922,
80.2861

■ 41.0654, 27.1661,
81.6768

■ 30.7299, 15.0463,
79.8822

■ 46.0068, 33.8359,
82.7038

■ 28.5536, 13.1920,
79.6390

■ 51.7876, 41.9980,
83.9745

■ 27.5674, 12.4792,
79.5534

■ 58.4543, 51.7424,
85.5040

66.0498, 63.1521,
87.3060

74.6141, 76.3041,
89.3932

84.1846, 91.2705,
91.7776

89.4767, 97.4797,
92.6972

91.9955, 98.7782,
92.8150

Harmonies

Analogous

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



26.3413, 21.8880, 116.8098



36.9110, 21.8880, 80.8766



43.9304, 21.8880, 38.3790

Triad

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



36.9110, 21.8880, 80.8766



25.4037, 21.8880, 0.5374



7.7825, 21.8880, 41.6585

Complementary

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



36.9110, 21.8880, 80.8766



41.7514, 65.4449, 18.6160

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.



7.6702, 21.8880, 13.5224



36.9110, 21.8880, 80.8766



16.1026, 21.8880, 0.6107

Square

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



36.9110, 21.8880, 80.8766



36.0479, 21.8880, 2.5297



10.2334, 21.8880, 2.9302



10.6078, 21.8880, 84.7764

Rectangle

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



36.9110, 21.8880, 80.8766



44.6000, 21.8880, 18.5470



10.2334, 21.8880, 2.9302



7.4640, 21.8880, 30.0369

Sweetspot

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



36.9120, 21.8888, 80.8771



75.3358, 69.7133, 104.0931



27.7575, 26.2262, 82.1968



15.5687, 14.0878, 22.1486



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.



36.9120, 21.8888, 80.8771



39.0048, 20.1291, 96.4373



49.5862, 28.7420, 67.0453



15.1556, 15.0255, 19.0237



15.4870, 7.0198, 44.2817



1.3208, 0.6052, 3.4821

Inverse Universe

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



41.9422, 25.6843, 26.7924



46.5599, 25.6584, 22.9446



35.7378, 62.2408, 23.0332



15.2907, 15.1441, 16.8161



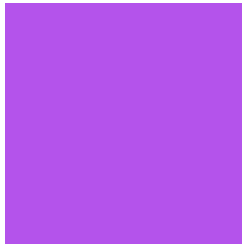
20.0368, 10.2174, 5.9950



1.6181, 0.8202, 0.7061

Previews

White Background



This preview shows how the XYZ color 36.9110, 21.8880, 80.8766 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 36.9110, 21.8880, 80.8766 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

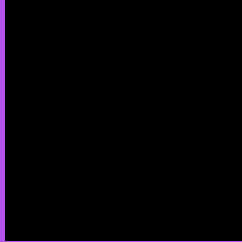
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 36.9110, 21.8880, 80.8766

Background



This preview shows how black text looks on a background with the XYZ color 36.9110, 21.8880, 80.8766.



This preview shows how white text looks on a background with the XYZ color 36.9110, 21.8880,

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

36.9110, 21.8880, 80.8766

Protanopia

26.4223, 22.4227, 97.5431

Deuteranopia

23.0627, 22.3520, 75.0503



Tritanopia

24.8474, 21.6528, 22.2719

Trichromacy



Original Color

36.9110, 21.8880, 80.8766



Protanomaly

27.0334, 20.2563, 91.2920



Deuteranomaly

24.9840, 20.1786, 76.7068



Tritanomaly

28.1040, 21.0523, 38.1796

Monochromacy



Original Color

36.9110, 21.8880, 80.8766



Achromatopsia

20.8660, 21.9526, 23.9064



Achromatomaly

25.0748, 20.7114, 39.7219

CSS Examples

Text

The CSS property to change the color of the text to XYZ 36.9110, 21.8880, 80.8766 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(180, 83, 235)` looks like.

```
.text, #text, p{  
    color:rgb(180, 83, 235)  
}
```

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(180, 83, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(180, 83, 235) }
```

Border

The CSS property to change the border of an element to XYZ 36.9110, 21.8880, 80.8766 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(180, 83, 235) }
```


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

```
.border{ border-color:rgb(180, 83, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(180, 83, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(180, 83, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(180, 83, 235);  
box-shadow:4px 4px 4px 4px rgb(180, 83,  
235) }
```

Background

The CSS property to change the background color of an element to XYZ 36.9110, 21.8880, 80.8766 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(180, 83, 235) }
```

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

```
.background{ background-color: rgb(180, 83,  
235) }
```

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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