

# Converting Colors

XYZ(46.8989, 41.4213, 97.0047)

Have a look what the booklet for  
XYZ(46.8989, 41.4213, 97.0047)  
contains.

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# Color

**XYZ(46.9105, 41.3517,  
96.7760)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAA2FB
RGB	170, 162, 251
RGB Percent	67%, 64%, 98%
CMY	0.3333, 0.3647, 0.0157
CMYK	0.32, 0.35, 0.00, 0.02
HSL	245°, 92%, 81%
HSV	245°, 35%, 98%
XYZ	46.9105, 41.3517, 96.7760
YIQ	174.5380, -23.8010, 29.3750

# Conversions

## Conversions Part 2

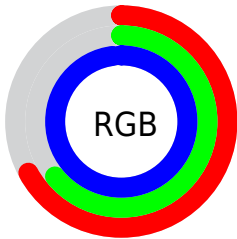
Format	Color
R <sub>Y</sub> B	170, 162, 251
Decimal	11182843
CIE Lab	70.42, 22.63, -43.29
CIE LCh	70, 48.849, 297.597
Yxy	41.3517, 0.2535, 0.2235
Android (android.graphics.Color)	4289372923 (0xFFAAA2FB)
YUV	174.5380, 37.6958, -3.9798
Hunter-Lab	64.3053, 17.6809, -44.2146

# Details

The XYZ color **46.9105, 41.3517, 96.7760** is a light color, and the websafe version is hex **9999FF**. A complement of this color would be **77.9814, 90.6583, 47.5726**, and the grayscale version is **40.3308, 42.4311, 46.2075**.

A 20% lighter version of the original color is **74.5414, 73.1766, 104.8035**, and **22.3838, 18.6917, 53.4671** is the 20% darker color. If you saturate the color by 10%, you get **38.4060, 31.0467, 95.2359**, and if you desaturate by 10%, it is **57.1584, 53.8669, 98.6523**.

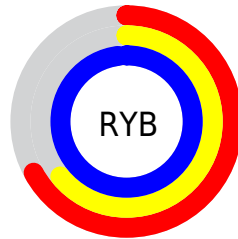
# Distribution



Red (67%)

Green (64%)

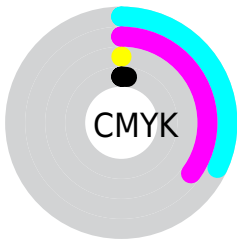
Blue (98%)



Red (67%)

Yellow (64%)

Blue (98%)

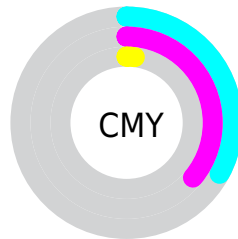


Cyan (32%)

Magenta (35%)

Yellow (0%)

Black (2%)



Cyan (33%)

Magenta (36%)

Yellow (2%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.9105, 41.3517, 96.7760 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 46.9105, 41.3517, 96.7760 by changing the saturation by 10% instead.



■ 46.9105, 41.3517,  
96.7760

■ 46.9105, 41.3517,  
96.7760

365.1120,  
351.7884, 570.9641

■ 33.1726, 28.5940,  
73.0090

■ 84.7996, 77.2175,  
158.7326

■ 22.4185, 18.7739,  
53.4914

■ 109.6814,  
101.0944, 197.7592

■ 14.2831, 11.5070,  
37.8048

139.0086,  
129.4465, 242.7095

■ 8.4008, 6.4090,  
25.5306

173.1465,  
162.6581, 294.0019

■ 4.4064, 3.0953,  
16.2502

212.4604,  
201.1137, 352.0550

■ 1.9345, 1.1817,  
9.5451

257.3157,

■ 0.5968, 0.0467,

245.1977, 417.2874

4.9968

308.0778,  
295.2945, 490.1176

■ 0.0000, 0.0000,  
2.1867

■ 0.0000, 0.0000,  
0.6667

■ 46.9105, 41.3517,  
96.7760

■ 46.9105, 41.3517,  
96.7760

■ 38.4060, 31.0467,  
95.2359

■ 57.1584, 53.8669,  
98.6523

■ 31.5432, 22.8187,  
94.0095

■ 69.2347, 68.7056,  
100.8800

■ 26.2169, 16.5275,  
93.0759

■ 83.2245, 85.9790,  
103.4767

■ 22.3075, 12.0137,  
92.4107

■ 94.4127, 99.7451,  
105.5442

■ 19.6779, 9.0921,  
91.9853

■ 18.1624, 7.5362,  
91.7649

■ 17.7562, 7.1422,  
91.7102

# Harmonies

## Analogous

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



38.6589, 41.3517, 105.3435



46.9105, 41.3517, 96.7760



53.8572, 41.3517, 73.1676

# Triad

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



46.9105, 41.3517, 96.7760



48.1852, 41.3517, 17.0308



25.7905, 41.3517, 43.1939

# Complementary

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



46.9105, 41.3517, 96.7760



77.9814, 90.6583, 47.5726

# 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.



27.6407, 41.3517, 25.2199



46.9105, 41.3517, 96.7760



39.9553, 41.3517, 13.6909

# Square

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



46.9105, 41.3517, 96.7760



54.6609, 41.3517, 27.4685



32.5669, 41.3517, 16.0782



27.1313, 41.3517, 68.8125



# Rectangle

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



46.9105, 41.3517, 96.7760



56.4217, 41.3517, 55.2215



32.5669, 41.3517, 16.0782



26.0536, 41.3517, 36.1678

# Sweetspot

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



46.9120, 41.3533, 96.7770



77.9692, 78.8665, 105.7211



64.5394, 79.0983, 103.1334



16.2747, 16.3699, 22.5519



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.



46.9120, 41.3533, 96.7770



41.7864, 34.5670, 99.0775



58.0413, 47.0907, 97.2978



16.4277, 16.7176, 21.7463



9.3833, 3.7799, 48.2086



0.9166, 0.3746, 4.4672



# Inverse Universe

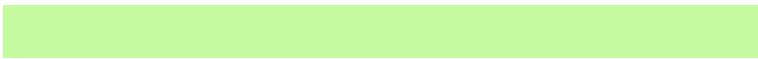
The Inverse Universe completely reimagines the original color for something new.



68.8825, 52.8222, 91.3592



67.9222, 48.2192, 92.2276



64.5952, 83.7575, 46.9461



17.9218, 17.4961, 21.4439



28.3330, 13.7489, 40.0573

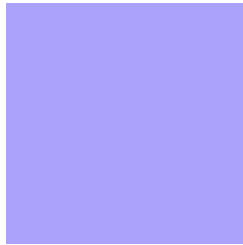


2.6432, 1.2810, 3.8107



# Previews

## White Background



This preview shows how the XYZ color 46.9105, 41.3517, 96.7760 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

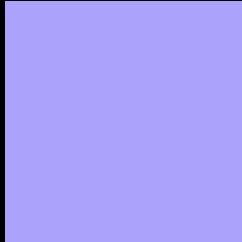
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.9105, 41.3517, 96.7760 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

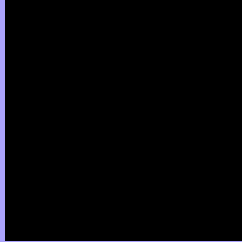
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 46.9105, 41.3517, 96.7760**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.9105, 41.3517, 96.7760.



This preview shows how white text looks on a background with the XYZ color 46.9105, 41.3517,



# 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

46.9105, 41.3517, 96.7760

### Protanopia

43.5657, 41.4356, 100.3094

### Deuteranopia

42.6463, 41.6281, 95.4099



## Tritanopia

38.4199, 41.5022, 54.1299

# Trichromacy



## Original Color

46.9105, 41.3517, 96.7760

## Protanomaly

44.6625, 41.2005, 99.3645

## Deuteranomaly

44.2068, 41.5828, 96.1388

## Tritanomaly

41.1587, 41.1843, 68.0674

# Monochromacy



## Original Color

46.9105, 41.3517, 96.7760

## Achromatopsia

40.7470, 42.8690, 46.6844

## Achromatomaly

42.3878, 41.9455, 62.3621

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.9105, 41.3517, 96.7760 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(170, 162, 251)` looks like.

```
.text, #text, p{  
    color:rgb(170, 162, 251)  
}
```

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(170, 162, 251) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 162, 251) }
```

## Border

The CSS property to change the border of an element to XYZ 46.9105, 41.3517, 96.7760 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(170, 162, 251) }
```



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

```
.border{ border-color:rgb(170, 162, 251) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 162, 251)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(170, 162, 251); -webkit-box-shadow:4px 4px 4px 4px rgb(170, 162, 251); box-shadow:4px 4px 4px 4px rgb(170, 162, 251) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.9105, 41.3517, 96.7760 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 162, 251) }
```

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

```
.background{ background-color: rgb(170,  
162, 251) }
```

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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