

# Converting Colors

XYZ(41.2932, 27.8070, 97.8085)

Have a look what the booklet for  
XYZ(41.2932, 27.8070, 97.8085)  
contains.

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# Color

**XYZ(41.2997, 27.8070,  
97.7983)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AE70FF
RGB	174, 112, 255
RGB Percent	68%, 44%, 100%
CMY	0.3176, 0.5608, 0.0000
CMYK	0.32, 0.56, 0.00, 0.00
HSL	266°, 100%, 72%
HSV	266°, 56%, 100%
XYZ	41.2997, 27.8070, 97.7983
YIQ	146.8400, -8.9510, 57.6170

# Conversions

## Conversions Part 2

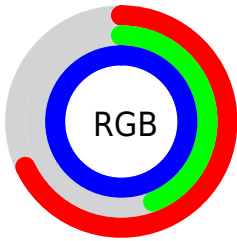
<b>Format</b>	<b>Color</b>
<b>RYB</b>	174, 112, 255
Decimal	11432191
CIELab	59.71, 52.36, -62.43
CIELCh	60, 81.476, 309.986
Yxy	27.8070, 0.2474, 0.1666
Android (android.graphics.Color)	4289622271 (0xFFAE70FF)
YUV	146.8400, 53.3229, 23.8193
Hunter-Lab	52.7323, 47.5187, -73.0476

# Details

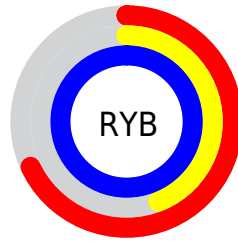
The XYZ color **41.2997, 27.8070, 97.7983** is a light color, and the websafe version is hex **9966FF**. A complement of this color would be **60.6768, 84.0272, 28.3508**, and the grayscale version is **27.4577, 28.8877, 31.4587**.

A 20% lighter version of the original color is **65.2905, 51.8161, 101.1681**, and **18.9492, 11.0817, 53.9636** is the 20% darker color. If you saturate the color by 10%, you get **35.8274, 21.3844, 96.8470**, and if you desaturate by 10%, it is **47.9166, 36.0028, 99.0315**.

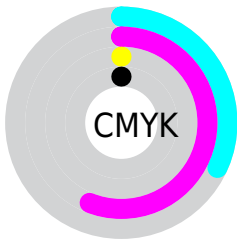
# Distribution



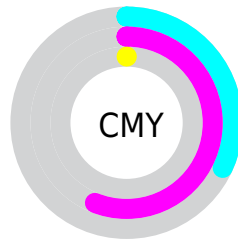
- Red (68%)
- Green (44%)
- Blue (100%)



- Red (68%)
- Yellow (44%)
- Blue (100%)



- Cyan (32%)
- Magenta (56%)
- Yellow (0%)
- Black (0%)




- Cyan (32%)
- Magenta (56%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.2997, 27.8070, 97.7983 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 41.2997, 27.8070, 97.7983 by changing the saturation by 10% instead.





 41.2997, 27.8070,  
97.7983


 41.2997, 27.8070,  
97.7983

342.6129,  
291.5435, 574.2968

 28.7420, 18.1802,  
73.8565


 76.4105, 56.1762,  
160.1536

 19.0291, 11.0795,  
54.1805


 99.6943, 75.6873,  
199.4042

 11.7954, 6.1203,  
38.3518


 127.2842, 99.2621,  
244.5948

 6.6757, 2.9184,  
25.9519

 159.5456,  
127.2848, 296.1440

 3.3047, 1.0893,  
16.5622

196.8438,  
160.1400, 354.4702

 1.3168, 0.0000,  
9.7642

239.5442,

 0.1958, 0.0000,

198.2119, 419.9920

5.1394

288.0121,  
241.8849, 493.1280

■ 0.0000, 0.0000,  
2.2691

■ 0.0000, 0.0000,  
0.7138

■ 41.2997, 27.8070,  
97.7983

■ 41.2997, 27.8070,  
97.7983

■ 35.8274, 21.3844,  
96.8470

■ 47.9166, 36.0028,  
99.0315

■ 31.4164, 16.5881,  
96.1537

■ 55.7465, 46.0965,  
100.5671

■ 27.9753, 13.2510,  
95.6910

■ 64.8556, 58.2046,  
102.4241

■ 25.3915, 11.1658,  
95.4247

■ 75.3040, 72.4331,  
104.6198

■ 24.5507, 10.5712,  
95.3542

■ 87.1478, 88.8807,  
107.1702

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.



30.0129, 27.8070, 127.4612



41.2997, 27.8070, 97.7983



49.7335, 27.8070, 54.1200

# Triad

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



41.2997, 27.8070, 97.7983



33.8001, 27.8070, 2.1415



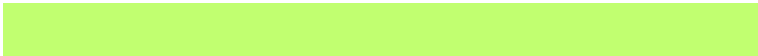
11.3351, 27.8070, 41.2097

# Complementary

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



41.2997, 27.8070, 97.7983



60.6768, 84.0272, 28.3508

# 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.



11.8521, 27.8070, 14.7238



41.2997, 27.8070, 97.7983



23.1437, 27.8070, 1.7321

# Square

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



41.2997, 27.8070, 97.7983



44.6830, 27.8070, 6.5049



15.6411, 27.8070, 4.3011



13.9789, 27.8070, 83.2709



# Rectangle

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



41.2997, 27.8070, 97.7983



51.5779, 27.8070, 30.2913



15.6411, 27.8070, 4.3011



11.1654, 27.8070, 30.2629

# Sweetspot

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



41.3008, 27.8080, 97.7984



74.2824, 71.0290, 104.4026



43.8100, 48.8201, 101.7219



15.4321, 14.5626, 22.2474



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.



41.3008, 27.8080, 97.7984



35.3773, 20.8761, 96.7726



61.6637, 38.3055, 98.7514



17.7501, 17.7629, 22.7430



12.9919, 5.6081, 49.8323



1.3874, 0.6092, 4.8577



# Inverse Universe

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



56.6600, 36.6991, 54.5488



52.7545, 30.9570, 46.8693



46.6452, 76.7937, 27.6942



18.4404, 18.1595, 20.9364



24.2730, 12.1985, 15.3542

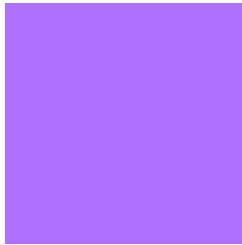


2.4182, 1.2097, 1.7839



# Previews

## White Background



This preview shows how the XYZ color 41.2997, 27.8070, 97.7983 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

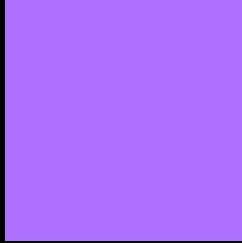
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.2997, 27.8070, 97.7983 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 41.2997, 27.8070, 97.7983**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.2997, 27.8070, 97.7983.



This preview shows how white text looks on a background with the XYZ color 41.2997, 27.8070,



# 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

41.2997, 27.8070, 97.7983

### Protanopia

31.5479, 28.1000, 98.3688

### Deuteranopia

29.1186, 28.0849, 92.6931



## Tritanopia

28.2095, 27.8282, 32.7387

# Trichromacy



## Original Color

41.2997, 27.8070, 97.7983



## Protanomaly

33.7784, 27.1783, 98.0734



## Deuteranomaly

31.3936, 26.6237, 94.7510



## Tritanomaly

31.7577, 27.1732, 51.1481

# Monochromacy



## Original Color

41.2997, 27.8070, 97.7983



## Achromatopsia

27.7328, 29.1771, 31.7738



## Achromatomaly

31.2927, 27.7635, 50.1640

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.2997, 27.8070, 97.7983 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(174, 112, 255)` looks like.

```
.text, #text, p{  
    color:rgb(174, 112, 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(174, 112, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(174, 112, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 41.2997, 27.8070, 97.7983 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(174, 112, 255) }
```



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

```
.border{ border-color:rgb(174, 112, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(174, 112, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(174, 112, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(174, 112, 255);  
box-shadow:4px 4px 4px 4px rgb(174, 112,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.2997, 27.8070, 97.7983 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(174, 112, 255) }
```

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

```
.background{ background-color: rgb(174,  
112, 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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