

# Converting Colors

XYZ(40.7063, 29.7199, 90.1770)

Have a look what the booklet for  
XYZ(40.7063, 29.7199, 90.1770)  
contains.

<b>XYZ(40.7023, 29.7785, 89.9888)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(40.7023, 29.7785,  
89.9888)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AC7CF5
RGB	172, 124, 245
RGB Percent	67%, 49%, 96%
CMY	0.3255, 0.5137, 0.0392
CMYK	0.30, 0.49, 0.00, 0.04
HSL	264°, 86%, 72%
HSV	264°, 49%, 96%
XYZ	40.7023, 29.7785, 89.9888
YIQ	152.1460, -10.2330, 47.8070

# Conversions

## Conversions Part 2

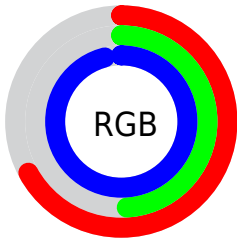
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">172, 124, 245</a>
Decimal	<a href="#">11304181</a>
CIELab	<a href="#">61.46, 42.98, -54.13</a>
CIELCh	<a href="#">61, 69.123, 308.451</a>
Yxy	<a href="#">29.7785, 0.2536, 0.1856</a>
Android (android.graphics.Color)	<a href="#">4289494261 (0xFFAC7CF5)</a>
YUV	<a href="#">152.1460, 45.7770, 17.4120</a>
Hunter-Lab	<a href="#">54.5697, 37.6422, -59.5741</a>

# Details

The XYZ color **40.7023, 29.7785, 89.9888** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **59.3169, 78.6309, 31.1206**, and the grayscale version is **29.7208, 31.2686, 34.0515**.

A 20% lighter version of the original color is **66.6035, 55.8838, 101.8840**, and **18.6621, 12.1089, 48.9306** is the 20% darker color. If you saturate the color by 10%, you get **34.9392, 22.8023, 88.9466**, and if you desaturate by 10%, it is **47.5912, 38.4681, 91.3035**.

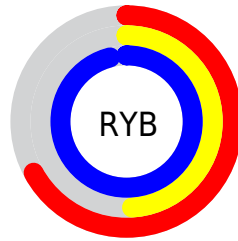
# Distribution



Red (67%)

Green (49%)

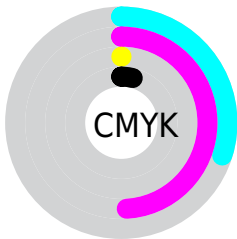
Blue (96%)



Red (67%)

Yellow (49%)

Blue (96%)

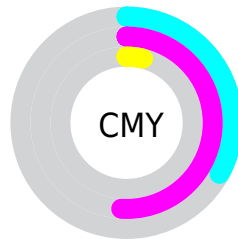


Cyan (30%)

Magenta (49%)

Yellow (0%)

Black (4%)



Cyan (33%)

Magenta (51%)


Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.7023, 29.7785, 89.9888 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 40.7023, 29.7785, 89.9888 by changing the saturation by 10% instead.





 40.7023, 29.7785,  
89.9888


 40.7023, 29.7785,  
89.9888

340.1587,  
300.8706, 548.5636


 28.2732, 19.6705,  
67.3977


 75.5093, 59.3117,  
149.2582

 18.6732, 12.1558,  
48.9443


 98.6180, 79.5057,  
186.7736

 11.5370, 6.8499,  
34.2100


 126.0171,  
103.8306, 230.1009

 6.4992, 3.3684,  
22.7763

158.0722,  
132.6706, 279.6585

 3.1944, 1.3269,  
14.2247

195.1486,  
166.4102, 335.8650

 1.2574, 0.1619,  
8.1366

237.6115,

 0.1510, 0.0000,

205.4338, 399.1390

4.0934

285.8265,  
250.1258, 469.8990

■ 0.0000, 0.0000,  
1.6767

■ 0.0000, 0.0000,  
0.3447

■ 40.7023, 29.7785,  
89.9888

■ 40.7023, 29.7785,  
89.9888

■ 34.9392, 22.8023,  
88.9466

■ 47.5912, 38.4681,  
91.3035

■ 30.2290, 17.4150,  
88.1550

■ 55.6652, 48.9768,  
92.9064

■ 26.4949, 13.4800,  
87.5922

■ 64.9833, 61.4055,  
94.8142

■ 23.6456, 10.8343,  
87.2317

■ 75.5994, 75.8467,  
97.0421

■ 21.5456, 9.2274,  
87.0323

■ 87.5640, 92.3867,  
99.6041

■ 21.4319, 9.1446,  
87.0223

■ 93.4815, 99.3726,  
100.6406

# Harmonies

## Analogous

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



30.9664, 29.7785, 112.0637



40.7023, 29.7785, 89.9888



48.0037, 29.7785, 54.6524

# Triad

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



40.7023, 29.7785, 89.9888



35.2635, 29.7785, 4.5228



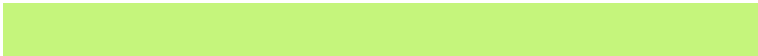
14.2335, 29.7785, 40.3995

# Complementary

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



40.7023, 29.7785, 89.9888



59.3169, 78.6309, 31.1206

# 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.



14.8999, 29.7785, 17.2251



40.7023, 29.7785, 89.9888



25.7980, 29.7785, 3.7695

# Square

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



40.7023, 29.7785, 89.9888



44.4225, 29.7785, 10.1125



18.7193, 29.7785, 6.8189



16.6485, 29.7785, 74.8860



# Rectangle

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



40.7023, 29.7785, 89.9888



49.7630, 29.7785, 33.8037



18.7193, 29.7785, 6.8189



14.1172, 29.7785, 31.0819

# Sweetspot

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



40.7035, 29.7796, 89.9895



76.0525, 73.8600, 104.8557



45.1298, 51.5493, 93.9582



15.7639, 15.1114, 22.3359



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.



40.7035, 29.7796, 89.9895



38.4141, 25.1492, 97.4374



56.6072, 37.9783, 90.7338



16.2032, 16.2474, 20.8246



11.6911, 5.0013, 46.8872



1.1399, 0.4975, 4.1262



# Inverse Universe

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



54.9425, 37.8598, 57.2354



56.1319, 35.2262, 55.6580



46.7918, 72.1740, 30.5345



16.9190, 16.6505, 19.3200



23.2277, 11.6345, 16.4394

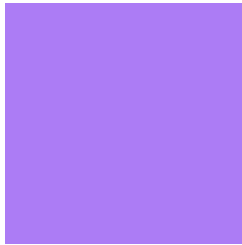


2.0921, 1.0428, 1.7111



# Previews

## White Background



This preview shows how the XYZ color 40.7023, 29.7785, 89.9888 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

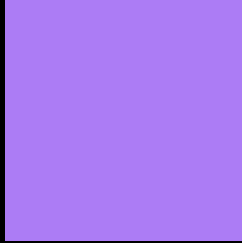
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 40.7023, 29.7785, 89.9888 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

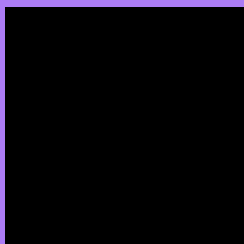
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 40.7023, 29.7785, 89.9888**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.7023, 29.7785, 89.9888.



This preview shows how white text looks on a background with the XYZ color 40.7023, 29.7785,



# 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

40.7023, 29.7785, 89.9888

### Protanopia

33.4309, 30.1801, 98.6711

### Deuteranopia

31.0917, 30.1658, 86.6220



## Tritanopia

29.7288, 29.6537, 36.0551

# Trichromacy



## Original Color

40.7023, 29.7785, 89.9888



## Protanomaly

34.9624, 29.2920, 95.0780



## Deuteranomaly

33.4311, 29.3045, 87.8987



## Tritanomaly

32.8289, 29.1425, 52.0389

# Monochromacy



## Original Color

40.7023, 29.7785, 89.9888



## Achromatopsia

29.8446, 31.3989, 34.1934



## Achromatomaly

32.8340, 30.2621, 50.5650

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.7023, 29.7785, 89.9888 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(172, 124, 245)` looks like.

```
.text, #text, p{  
    color:rgb(172, 124, 245)  
}
```

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(172, 124, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 124, 245) }
```

## Border

The CSS property to change the border of an element to XYZ 40.7023, 29.7785, 89.9888 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(172, 124, 245) }
```



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

```
.border{ border-color:rgb(172, 124, 245) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 124, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 124, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 124, 245);  
box-shadow:4px 4px 4px 4px rgb(172, 124,  
245) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.7023, 29.7785, 89.9888 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 124, 245) }
```

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

```
.background{ background-color: rgb(172,  
124, 245) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor