

# Converting Colors

XYZ(37.7427, 28.3699, 76.1597)

Have a look what the booklet for  
XYZ(37.7427, 28.3699, 76.1597)  
contains.

<b>XYZ(37.7427, 28.3699, 76.1597)</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(37.7427, 28.3699,  
76.1597)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AB7BE3
RGB	171, 123, 227
RGB Percent	67%, 48%, 89%
CMY	0.3294, 0.5176, 0.1098
CMYK	0.25, 0.46, 0.00, 0.11
HSL	268°, 65%, 69%
HSV	268°, 46%, 89%
XYZ	37.7427, 28.3699, 76.1597
YIQ	149.2080, -4.7760, 42.5200

# Conversions

## Conversions Part 2

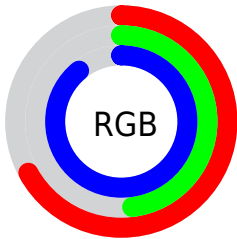
Format	Color
<a href="#">RYB</a>	<a href="#">171, 123, 227</a>
Decimal	<a href="#">11238371</a>
CIELab	<a href="#">60.22, 38.97, -46.12</a>
CIElCh	<a href="#">60, 60.378, 310.196</a>
Yxy	<a href="#">28.3699, 0.2653, 0.1994</a>
Android (android.graphics.Color)	<a href="#">4289428451 (0xFFAB7BE3)</a>
YUV	<a href="#">149.2080, 38.3515, 19.1116</a>
Hunter-Lab	<a href="#">53.2634, 33.2750, -47.4926</a>

# Details

The XYZ color **37.7427, 28.3699, 76.1597** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **49.6352, 65.9525, 28.8539**, and the grayscale version is **28.5006, 29.9848, 32.6535**.

A 20% lighter version of the original color is **65.5702, 54.7646, 101.7224**, and **16.9357, 11.4184, 39.8394** is the 20% darker color. If you saturate the color by 10%, you get **32.7060, 22.0671, 75.2091**, and if you desaturate by 10%, it is **43.6806, 36.1074, 77.3407**.

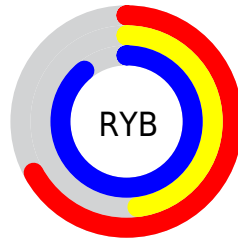
# Distribution



Red (67%)

Green (48%)

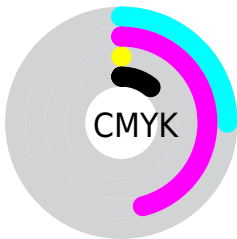
Blue (89%)



Red (67%)

Yellow (48%)

Blue (89%)

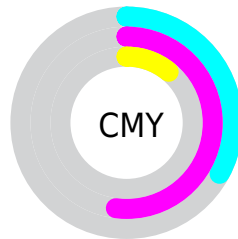


Cyan (25%)

Magenta (46%)

Yellow (0%)

Black (11%)



Cyan (33%)

Magenta (52%)

Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7427, 28.3699, 76.1597 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 37.7427, 28.3699, 76.1597 by changing the saturation by 10% instead.



37.7427, 28.3699,  
76.1597

37.7427, 28.3699,  
76.1597

327.8149,  
294.2302, 501.2556

25.9594, 18.6047,  
56.0560

71.0200, 57.0745,  
129.7148

16.9258, 11.3850,  
39.8436

93.2447, 76.7826,  
164.0033

10.2765, 6.3264,  
27.1037

119.6806,  
100.5738, 203.8571

5.6464, 3.0446,  
17.4180

150.6930,  
128.8326, 249.6949

2.6699, 1.1550,  
10.3679

186.6473,  
161.9432, 301.9350

0.9817, 0.0245,  
5.5348

227.9088,

0.0000, 0.0000,

200.2900, 360.9962

2.5001

274.8429,  
244.2576, 427.2969

■ 0.0000, 0.0000,  
0.8402

■ 0.0000, 0.0000,  
0.0000

■ 37.7427, 28.3699,  
76.1597

■ 37.7427, 28.3699,  
76.1597

■ 32.7060, 22.0671,  
75.2091

■ 43.6806, 36.1074,  
77.3407

■ 28.5148, 17.1008,  
74.4714


■ 50.5642, 45.3624,  
78.7643


■ 25.1117, 13.3651,  
73.9297

■ 58.4387, 56.2151,  
80.4441


■ 22.4290, 10.7358,  
73.5636


■ 67.3453, 68.7389,  
82.3920

 20.3849, 9.0602,  
73.3479

 77.3226, 83.0027,  
84.6193

 19.6641, 8.5355,  
73.2846

 87.0516, 96.3601,  
86.6848

 90.8652, 98.3261,  
86.8632

# Harmonies

## Analogous

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



29.6829, 28.3699, 94.5985



37.7427, 28.3699, 76.1597



43.5099, 28.3699, 47.6768

# Triad

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



37.7427, 28.3699, 76.1597



32.3216, 28.3699, 5.6526



14.8200, 28.3699, 39.0564

# Complementary

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



37.7427, 28.3699, 76.1597



49.6352, 65.9525, 28.8539

# 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.



15.2566, 28.3699, 18.5939



37.7427, 28.3699, 76.1597



24.4178, 28.3699, 5.0783

# Square

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



37.7427, 28.3699, 76.1597



39.9890, 28.3699, 10.7538



18.4629, 28.3699, 8.4464



17.1286, 28.3699, 67.3228



# Rectangle

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



37.7427, 28.3699, 76.1597



44.7305, 28.3699, 30.7445



18.4629, 28.3699, 8.4464



14.6631, 28.3699, 31.0360

# Sweetspot

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



37.7438, 28.3710, 76.1604



77.9780, 75.8345, 105.1354



38.3960, 42.4813, 78.8495



16.1792, 15.5187, 22.3926



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.



37.7438, 28.3710, 76.1604



42.8543, 29.0658, 97.9593



51.0118, 35.2109, 76.7813



14.2118, 14.2114, 18.1384



11.5996, 5.0457, 42.7457



0.9634, 0.4276, 3.1637



# Inverse Universe

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



46.8989, 33.7524, 46.6913



56.6658, 37.1940, 53.0614



39.9772, 60.9736, 28.4020



14.6999, 14.4971, 16.6199



20.5916, 10.3709, 12.0103



1.5684, 0.7851, 1.1340



# Previews

## White Background



This preview shows how the XYZ color 37.7427, 28.3699, 76.1597 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

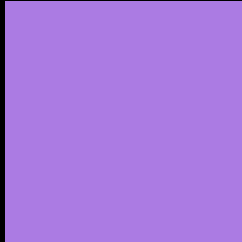
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 37.7427, 28.3699, 76.1597 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

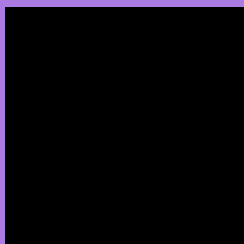
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 37.7427, 28.3699, 76.1597**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7427, 28.3699, 76.1597.



This preview shows how white text looks on a background with the XYZ color 37.7427, 28.3699,



# 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

37.7427, 28.3699, 76.1597

### Protanopia

31.4816, 28.7024, 89.4688

### Deuteranopia

29.5081, 28.7043, 73.7973



## Tritanopia

29.0645, 28.2596, 33.2009

# Trichromacy



## Original Color

37.7427, 28.3699, 76.1597



## Protanomaly

32.8490, 28.0130, 84.5646



## Deuteranomaly

31.6061, 28.0190, 74.2634



## Tritanomaly

31.7660, 28.0914, 46.3958

# Monochromacy



## Original Color

37.7427, 28.3699, 76.1597



## Achromatopsia

28.5667, 30.0544, 32.7292



## Achromatomaly

31.2185, 29.0986, 45.5662

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7427, 28.3699, 76.1597 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(171, 123, 227)` looks like.

```
.text, #text, p{  
    color:rgb(171, 123, 227)  
}
```

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(171, 123, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 123, 227) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7427, 28.3699, 76.1597 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(171, 123, 227) }
```



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

```
.border{ border-color:rgb(171, 123, 227) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 123, 227)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 123, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 123, 227);  
box-shadow:4px 4px 4px 4px rgb(171, 123,  
227) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7427, 28.3699, 76.1597 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 123, 227) }
```

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

```
.background{ background-color: rgb(171,  
123, 227) }
```

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