

# Converting Colors

XYZ(35.3059, 20.1539, 89.8954)

Have a look what the booklet for  
XYZ(35.3059, 20.1539, 89.8954)  
contains.

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# Color

**XYZ(35.3787, 20.2386,  
90.0375)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A74DF7
RGB	167, 77, 247
RGB Percent	65%, 30%, 97%
CMY	0.3451, 0.6980, 0.0314
CMYK	0.32, 0.69, 0.00, 0.03
HSL	272°, 91%, 64%
HSV	272°, 69%, 97%
XYZ	35.3787, 20.2386, 90.0375
YIQ	123.2900, -0.9300, 71.9500

# Conversions

## Conversions Part 2

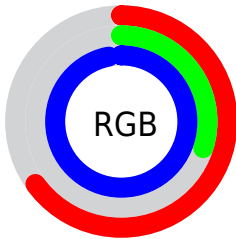
Format	Color
<a href="#">RYB</a>	<a href="#">167, 77, 247</a>
Decimal	<a href="#">10964471</a>
CIELab	<a href="#">52.11, 66.11, -70.30</a>
CIELCh	<a href="#">52, 96.501, 313.241</a>
Yxy	<a href="#">20.2386, 0.2429, 0.1389</a>
Android (android.graphics.Color)	<a href="#">4289154551 (0xFFA74DF7)</a>
YUV	<a href="#">123.2900, 60.9890, 38.3337</a>
Hunter-Lab	<a href="#">44.9873, 61.6472, -87.1717</a>

# Details

The XYZ color **35.3787, 20.2386, 90.0375** is a light color, and the websafe version is hex **9933CC**. The color can be described as light washed purple. A complement of this color would be **48.5049, 74.2257, 18.7920**, and the grayscale version is **18.7284, 19.7038, 21.4574**.

A 20% lighter version of the original color is **57.9798, 40.0534, 99.2830**, and **15.4893, 7.1016, 48.6985** is the 20% darker color. If you saturate the color by 10%, you get **31.6208, 16.2047, 89.4574**, and if you desaturate by 10%, it is **40.0149, 25.6990, 90.8475**.

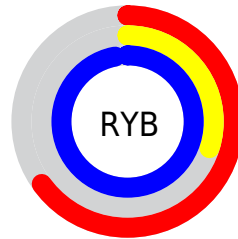
# Distribution



Red (65%)

Green (30%)

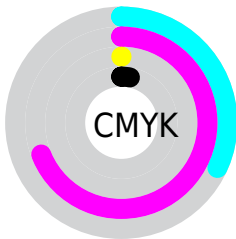
Blue (97%)



Red (65%)

Yellow (30%)

Blue (97%)

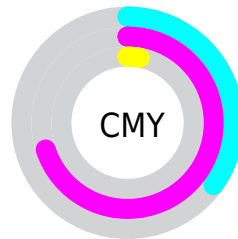


Cyan (32%)

Magenta (69%)

Yellow (0%)

Black (3%)



Cyan (35%)

Magenta (70%)

Yellow (3%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.3787, 20.2386, 90.0375 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 35.3787, 20.2386, 90.0375 by changing the saturation by 10% instead.




 35.3787, 20.2386,  
90.0375


 35.3787, 20.2386,  
90.0375


317.7156,  
253.2039, 548.7261


 24.1226, 12.5686,  
67.4379

 67.4022, 43.8169,  
149.3265


 15.5498, 7.1322,  
48.9767


 88.9003, 60.4939,  
186.8529

 9.2950, 3.5449,  
34.2355


 114.5431, 80.9421,  
230.1919

 4.9927, 1.4224,  
22.7958

 144.6960,  
105.5458, 279.7622

 2.2777, 0.2331,  
14.2389

 179.7244,  
134.6894, 335.9822

 0.7832, 0.0000,  
8.1464

219.9935,

 0.0000, 0.0000,

168.7574, 399.2705

4.0996

265.8688,  
208.1341, 470.0456

■ 0.0000, 0.0000,  
1.6802

■ 0.0000, 0.0000,  
0.3471

■ 35.3787, 20.2386,  
90.0375

■ 35.3787, 20.2386,  
90.0375

■ 31.6208, 16.2047,  
89.4574

■ 40.0149, 25.6990,  
90.8475

■ 28.6537, 13.4346,  
89.0791

■ 45.5986, 32.7195,  
91.9083

■ 26.3568, 11.6948,  
88.8643

■ 52.1944, 41.4203,  
93.2401

■ 26.1128, 11.5223,  
88.8439

■ 59.8599, 51.9090,  
94.8606

68.6480, 64.2837,  
96.7860

78.6077, 78.6355,  
99.0312

89.7851, 95.0493,  
101.6103

93.7886, 99.4954,  
102.2575

# Harmonies

## Analogous

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



23.9167, 20.2386, 128.5104



35.3787, 20.2386, 90.0375



43.7184, 20.2386, 41.7077

# Triad

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



35.3787, 20.2386, 90.0375



25.2411, 20.2386, 0.0000



6.0488, 20.2386, 36.9701

# Complementary

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



35.3787, 20.2386, 90.0375



48.5049, 74.2257, 18.7920

# 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.



6.1892, 20.2386, 9.7897



35.3787, 20.2386, 90.0375



15.2100, 20.2386, 0.0000

# Square

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



35.3787, 20.2386, 90.0375



36.6293, 20.2386, 1.8390



8.9471, 20.2386, 1.4244



8.4619, 20.2386, 84.1437



# Rectangle

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



35.3787, 20.2386, 90.0375



45.0725, 20.2386, 19.1052



8.9471, 20.2386, 1.4244



5.8322, 20.2386, 25.2530

# Sweetspot

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



35.3797, 20.2393, 90.0380



71.6109, 65.9935, 103.5714



32.2763, 33.1473, 92.6931



14.7581, 13.3205, 22.0432



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.



35.3797, 20.2393, 90.0380



32.5217, 15.9818, 95.9785



57.3665, 31.6241, 88.8017



16.4188, 16.3585, 20.8347



13.9757, 6.1791, 46.9941



1.3470, 0.6042, 4.1359



# Inverse Universe

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



47.0977, 27.5165, 34.7266



47.0706, 24.9949, 28.3092



37.7635, 68.6765, 18.8230



16.8237, 16.6123, 18.8184



22.0310, 11.1558, 10.1374

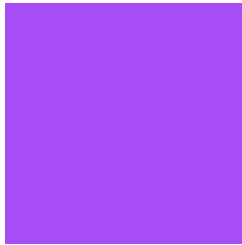


1.9878, 1.0011, 1.1621



# Previews

## White Background



This preview shows how the XYZ color 35.3787, 20.2386, 90.0375 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

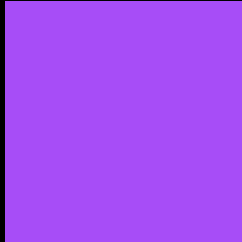
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.3787, 20.2386, 90.0375 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

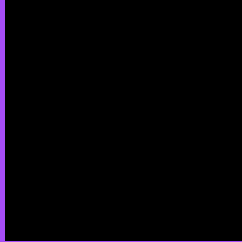
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 35.3787, 20.2386, 90.0375**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.3787, 20.2386, 90.0375.



This preview shows how white text looks on a background with the XYZ color 35.3787, 20.2386,



# 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

35.3787, 20.2386, 90.0375

### Protanopia

24.6059, 20.5887, 96.4431

### Deuteranopia

20.7742, 20.4527, 71.9601



## Tritanopia

21.6288, 20.1582, 22.4896

# Trichromacy



## Original Color

35.3787, 20.2386, 90.0375



## Protanomaly

24.2874, 17.8578, 93.4336



## Deuteranomaly

21.8169, 17.6989, 77.8677



## Tritanomaly

24.9560, 19.0804, 40.3978

# Monochromacy



## Original Color

35.3787, 20.2386, 90.0375



## Achromatopsia

18.8265, 19.8069, 21.5697



## Achromatomaly

22.8694, 18.6242, 39.4353

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.3787, 20.2386, 90.0375 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(167, 77, 247)` looks like.

```
.text, #text, p{  
    color:rgb(167, 77, 247)  
}
```

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(167, 77, 247) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(167, 77, 247) }
```

## Border

The CSS property to change the border of an element to XYZ 35.3787, 20.2386, 90.0375 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(167, 77, 247) }
```



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

```
.border{ border-color:rgb(167, 77, 247) }
```

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

Here you see how a box with a 4 pixel `rgb(167, 77, 247)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(167, 77, 247); -webkit-box-  
shadow:4px 4px 4px 4px rgb(167, 77, 247);  
box-shadow:4px 4px 4px 4px rgb(167, 77,  
247) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.3787, 20.2386, 90.0375 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(167, 77, 247) }
```

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

```
.background{ background-color: rgb(167, 77,  
247) }
```

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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