

# Converting Colors

XYZ(63.8896, 40.0835, 91.1014)

Have a look what the booklet for  
XYZ(63.8896, 40.0835, 91.1014)  
contains.

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# Color

**XYZ(63.8522, 40.1140,  
90.7636)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF73F5
RGB	255, 115, 245
RGB Percent	100%, 45%, 96%
CMY	0.0000, 0.5490, 0.0392
CMYK	0.00, 0.55, 0.04, 0.00
HSL	304°, 100%, 73%
HSV	304°, 55%, 100%
XYZ	63.8522, 40.1140, 90.7636
YIQ	171.6800, 41.7100, 70.1100

# Conversions

## Conversions Part 2

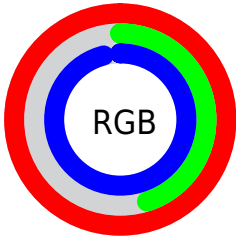
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">255, 115, 245</a>
Decimal	<a href="#">16741365</a>
CIELab	<a href="#">69.55, 69.15, -40.73</a>
CIElCh	<a href="#">70, 80.255, 329.506</a>
Yxy	<a href="#">40.1140, 0.3279, 0.2060</a>
Android (android.graphics.Color)	<a href="#">4294931445 (0xFFFF73F5)</a>
YUV	<a href="#">171.6800, 36.1468, 73.0716</a>
Hunter-Lab	<a href="#">63.3356, 69.1186, -40.6311</a>

# Details

The XYZ color **63.8522, 40.1140, 90.7636** is a light color, and the websafe version is hex **FF66FF**. A complement of this color would be **46.5331, 76.6461, 31.7456**, and the grayscale version is **38.8609, 40.8847, 44.5234**.

A 20% lighter version of the original color is **74.0425, 57.9850, 101.8975**, and **32.9490, 17.9653, 49.3080** is the 20% darker color. If you saturate the color by 10%, you get **61.0594, 34.9712, 88.4680**, and if you desaturate by 10%, it is **67.4533, 46.8689, 93.3432**.

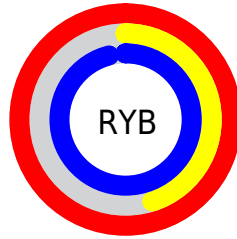
# Distribution



Red (100%)

Green (45%)

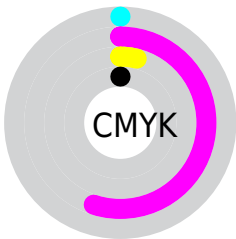
Blue (96%)



Red (100%)

Yellow (45%)

Blue (96%)

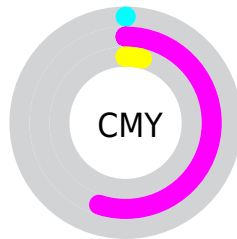


Cyan (0%)

Magenta (55%)

Yellow (4%)

Black (0%)



Cyan (0%)

Magenta (55%)


Yellow (4%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.8522, 40.1140, 90.7636 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 63.8522, 40.1140, 90.7636 by changing the saturation by 10% instead.





 63.8522, 40.1140,  
90.7636

 63.8522, 40.1140,  
90.7636


428.2664,  
346.6038, 551.1458

 46.7922, 27.6274,  
68.0369


 109.4730, 75.3371,  
150.3434

 33.0787, 18.0450,  
49.4609

 138.7645, 98.8424,  
188.0335

 22.3462, 10.9823,  
34.6170


 172.8639,  
126.7894, 231.5485

 14.2296, 6.0549,  
23.0868

212.1365,  
159.5625, 281.3070

 8.3633, 2.8785,  
14.4517

256.9477,  
197.5461, 337.7274

 4.3820, 1.0686,  
8.2932

307.6628,

 1.9204, 0.0000,

241.1246, 401.2283

4.1927

364.6473,  
290.6824, 472.2282

■ 0.5887, 0.0000,  
1.7316

■ 0.0000, 0.0000,  
0.3823

■ 63.8522, 40.1140,  
90.7636

■ 63.8522, 40.1140,  
90.7636

■ 61.0594, 34.9712,  
88.4680

■ 67.4533, 46.8689,  
93.3432

■ 59.0045, 31.2998,  
86.4312

■ 71.9207, 55.3521,  
96.2246

■ 57.6088, 28.9426,  
84.6277

■ 77.3097, 65.6742,  
99.4268

■ 56.7748, 27.7043,  
83.0248

■ 83.6706, 77.9354,  
102.9666

■ 56.4948, 27.3619,  
82.2608

■ 91.0497, 92.2288,  
106.8594

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.



51.7491, 40.1140, 139.7446



63.8522, 40.1140, 90.7636



68.8308, 40.1140, 44.2947

# Triad

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



63.8522, 40.1140, 90.7636



38.3421, 40.1140, 4.1392



20.3064, 40.1140, 89.0414

# Complementary

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



63.8522, 40.1140, 90.7636



46.5331, 76.6461, 31.7456

# 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.



18.2586, 40.1140, 43.0657



63.8522, 40.1140, 90.7636



27.1337, 40.1140, 6.3734

# Square

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



63.8522, 40.1140, 90.7636



52.2060, 40.1140, 6.5452



20.4477, 40.1140, 16.5687



26.8386, 40.1140, 138.4146



# Rectangle

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



63.8522, 40.1140, 90.7636



66.7354, 40.1140, 23.9346



20.4477, 40.1140, 16.5687



19.1466, 40.1140, 72.0701

# Sweetspot

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



63.8530, 40.1155, 90.7644



82.9215, 76.4881, 102.5600



32.5428, 23.7933, 97.4851



17.4558, 15.8062, 21.7917



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.



63.8530, 40.1155, 90.7644



60.7984, 34.4977, 88.2316



55.1753, 36.6445, 45.0685



18.7334, 18.2767, 22.4790



29.5435, 14.3067, 43.1081



2.8927, 1.3994, 4.2821



# Inverse Universe

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



63.8530, 40.1155, 90.7644



60.7984, 34.4977, 88.2316



52.6065, 79.0754, 63.7275



18.7334, 18.2767, 22.4790



29.5435, 14.3067, 43.1081

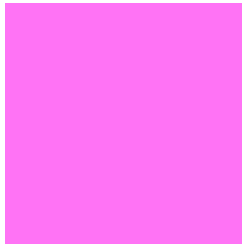


2.8927, 1.3994, 4.2821



# Previews

## White Background



This preview shows how the XYZ color 63.8522, 40.1140, 90.7636 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

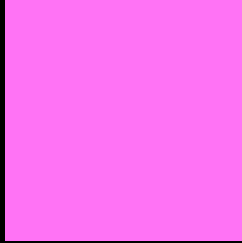
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.8522, 40.1140, 90.7636 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

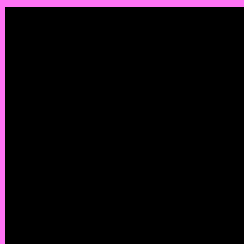
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 63.8522, 40.1140, 90.7636**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.8522, 40.1140, 90.7636.



This preview shows how white text looks on a background with the XYZ color 63.8522, 40.1140,



# 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

63.8522, 40.1140, 90.7636

### Protanopia

42.7001, 40.7142, 100.2158

### Deuteranopia

41.3557, 40.3573, 84.9669



## Tritanopia

51.9657, 39.8683, 33.3902

# Trichromacy



## Original Color

63.8522, 40.1140, 90.7636



## Protanomaly

47.2161, 38.2837, 96.1677



## Deuteranomaly

46.8210, 38.2917, 86.5847



## Tritanomaly

55.3458, 39.3824, 50.0319

# Monochromacy



## Original Color

63.8522, 40.1140, 90.7636



## Achromatopsia

39.2122, 41.2543, 44.9259



## Achromatomaly

45.7325, 38.8133, 59.1142

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.8522, 40.1140, 90.7636 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(255, 115, 245)` looks like.

```
.text, #text, p{  
    color:rgb(255, 115, 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(255, 115, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 115, 245) }
```

## Border

The CSS property to change the border of an element to XYZ 63.8522, 40.1140, 90.7636 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(255, 115, 245) }
```



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

```
.border{ border-color:rgb(255, 115, 245) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 115, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 115, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 115, 245);  
box-shadow:4px 4px 4px 4px rgb(255, 115,  
245) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.8522, 40.1140, 90.7636 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 115, 245) }
```

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

```
.background{ background-color: rgb(255,  
115, 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](#).

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