

# Converting Colors

XYZ(63.3206, 36.5738, 98.2302)

Have a look what the booklet for  
XYZ(63.3206, 36.5738, 98.2302)  
contains.

<b>XYZ(63.3822, 36.6644, 98.3441)</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(63.3822, 36.6644,  
98.3441)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF5FFF
RGB	255, 95, 255
RGB Percent	100%, 37%, 100%
CMY	0.0000, 0.6274, 0.0000
CMYK	0.00, 0.63, 0.00, 0.00
HSL	300°, 100%, 69%
HSV	300°, 63%, 100%
XYZ	63.3822, 36.6644, 98.3441
YIQ	161.0800, 44.0000, 83.6800

# Conversions

## Conversions Part 2

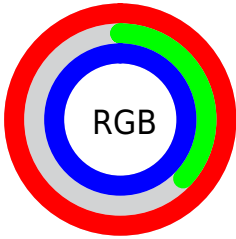
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 95, 255
Decimal	16736255
CIE Lab	67.02, 78.97, -50.18
CIE LCh	67, 93.562, 327.565
Yxy	36.6644, 0.3195, 0.1848
Android (android.graphics.Color)	4294926335 (0xFFFF5FFF)
YUV	161.0800, 46.3026, 82.3678
Hunter-Lab	60.5511, 80.8813, -53.9100

# Details

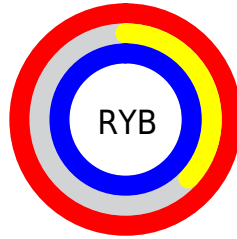
The XYZ color **63.3822, 36.6644, 98.3441** is a light color, and the websafe version is hex **FF66FF**. The color can be described as light muted magenta. A complement of this color would be **42.5459, 74.7796, 23.0197**, and the grayscale version is **33.6923, 35.4469, 38.6017**.

A 20% lighter version of the original color is **71.0113, 51.9227, 100.8871**, and **32.9150, 16.1119, 54.8012** is the 20% darker color. If you saturate the color by 10%, you get **61.4495, 32.7989, 97.6998**, and if you desaturate by 10%, it is **66.0676, 42.0353, 99.2392**.

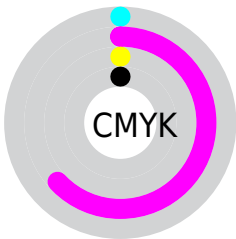
# Distribution



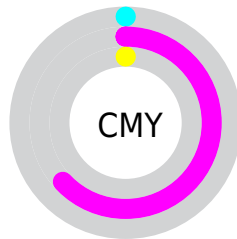
- Red (100%)
- Green (37%)
- Blue (100%)



- Red (100%)
- Yellow (37%)
- Blue (100%)



- Cyan (0%)
- Magenta (63%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (63%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 63.3822, 36.6644, 98.3441 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 63.3822, 36.6644, 98.3441 by changing the saturation by 10% instead.



 63.3822, 36.6644,  
98.3441


 63.3822, 36.6644,  
98.3441


426.5929,  
331.8553, 576.0718


 46.4103, 24.9478,  
74.3092


 108.7994, 70.0563,  
160.9117


 32.7757, 16.0381,  
54.5488


 137.9755, 92.5004,  
200.2815

 22.1131, 9.5511,  
38.6444


 171.9503,  
119.2891, 245.6000

 14.0571, 5.1024,  
26.1775

 211.0892,  
150.8067, 297.2857

 8.2423, 2.3075,  
16.7296

255.7575,  
187.4378, 355.7572

 4.3035, 0.7777,  
9.8819

306.3207,

 1.8752, 0.0000,

229.5667, 421.4330

5.2162

363.1440,  
277.5777, 494.7317

■ 0.5624, 0.0000,  
2.3137

■ 0.0000, 0.0000,  
0.7389

■ 63.3822, 36.6644,  
98.3441

■ 63.3822, 36.6644,  
98.3441

■ 61.4495, 32.7989,  
97.6998

■ 66.0676, 42.0353,  
99.2392

■ 60.1909, 30.2819,  
97.2803

■ 69.5700, 49.0400,  
100.4067

■ 59.5146, 28.9292,  
97.0549

■ 73.9489, 57.7978,  
101.8663

■ 59.2900, 28.4800,  
96.9800

■ 79.2579, 68.4158,  
103.6360

85.5462, 80.9924,  
105.7321

92.8596, 95.6192,  
108.1699

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.



49.0888, 36.6644, 157.2890



63.3822, 36.6644, 98.3441



69.9109, 36.6644, 43.3404

# Triad

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



63.3822, 36.6644, 98.3441



36.0227, 36.6644, 1.6676



15.8001, 36.6644, 88.2064

# Complementary

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



63.3822, 36.6644, 98.3441



42.5459, 74.7796, 23.0197

# 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.



14.0523, 36.6644, 36.6869



63.3822, 36.6644, 98.3441



23.6686, 36.6644, 2.9699

# Square

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



63.3822, 36.6644, 98.3441



51.6600, 36.6644, 3.5979



16.4954, 36.6644, 10.9350



22.1482, 36.6644, 149.1373



# Rectangle

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



63.3822, 36.6644, 98.3441



67.9419, 36.6644, 20.6511



16.4954, 36.6644, 10.9350



14.7455, 36.6644, 68.5111

# Sweetspot

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



63.3829, 36.6657, 98.3443



81.4940, 72.8879, 104.3813



26.8629, 17.8390, 96.6352



17.0746, 14.8640, 22.2191



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.



63.3829, 36.6657, 98.3443



61.1093, 32.1187, 97.5864



53.0711, 32.5410, 44.0432



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741



3.0164, 1.4490, 4.9340



# Inverse Universe

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



63.3829, 36.6657, 98.3443



61.1093, 32.1187, 97.5864



48.2183, 77.0486, 52.8898



18.7928, 18.3004, 22.7918



30.9803, 14.8814, 50.6741



3.0164, 1.4490, 4.9340



# Previews

## White Background



This preview shows how the XYZ color 63.3822, 36.6644, 98.3441 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

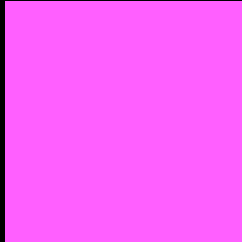
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 63.3822, 36.6644, 98.3441 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

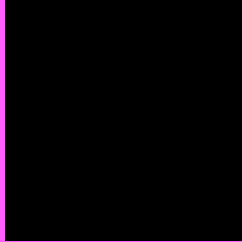
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 63.3822, 36.6644, 98.3441**

## **Background**



This preview shows how black text looks on a background with the XYZ color 63.3822, 36.6644, 98.3441.



This preview shows how white text looks on a background with the XYZ color 63.3822, 36.6644,



# 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

63.3822, 36.6644, 98.3441

### Protanopia

39.2250, 36.7972, 99.6429

### Deuteranopia

38.0019, 36.8843, 90.7044



## Tritanopia

48.7861, 36.2654, 28.8547

# Trichromacy



## Original Color

63.3822, 36.6644, 98.3441



## Protanomaly

44.0877, 33.7126, 98.7912



## Deuteranomaly

43.4873, 33.9529, 93.0685

## Tritanomaly

52.7078, 35.6516, 47.8195

# Monochromacy



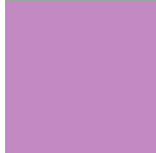
## Original Color

63.3822, 36.6644, 98.3441



## Achromatopsia

33.8758, 35.6400, 38.8120



## Achromatomaly

41.3017, 33.4336, 55.9062

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 63.3822, 36.6644, 98.3441 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, 95, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 95, 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(255, 95, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 95, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 63.3822, 36.6644, 98.3441 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, 95, 255) }
```



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

```
.border{ border-color:rgb(255, 95, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 95, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 95, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 95, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 95,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 63.3822, 36.6644, 98.3441 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 95, 255) }
```

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

```
.background{ background-color: rgb(255, 95,  
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](#).

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