

# Converting Colors

XYZ(59.9845, 29.8691, 97.2115)

Have a look what the booklet for  
XYZ(59.9845, 29.8691, 97.2115)  
contains.

|  |    |
|--|----|
| <b>XYZ(59.9831, 29.8662, 97.2110)</b> .....    | 3  |
| <i><b>Conversions</b></i> .....                | 4  |
| <i><b>Details</b></i> .....                    | 6  |
| <i><b>Harmonies</b></i> .....                  | 12 |
| <i><b>Previews</b></i> .....                   | 24 |
| <i><b>Color Blindness Simulation</b></i> ..... | 28 |
| <i><b>CSS Examples</b></i> .....               | 31 |

# Color

**XYZ(59.9831, 29.8662,  
97.2110)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | FF26FF                      |
| RGB         | 255, 38, 255                |
| RGB Percent | 100%, 15%, 100%             |
| CMY         | 0.0000, 0.8509, 0.0000      |
| CMYK        | 0.00, 0.85, 0.00, 0.00      |
| HSL         | 300°, 100%, 57%             |
| HSV         | 300°, 85%, 100%             |
| XYZ         | 59.9831, 29.8662, 97.2110   |
| YIQ         | 127.6210, 59.6750, 113.4910 |

# Conversions

## Conversions Part 2

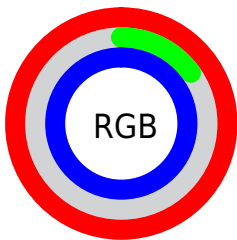
| <b>Format</b>                       | <b>Color</b>                   |
|-------------------------------------|--------------------------------|
| R <sub>Y</sub> B                    | 255, 38, 255                   |
| Decimal                             | 16721663                       |
| CIE Lab                             | 61.54, 94.66, -58.89           |
| CIE LCh                             | 62, 111.485, 328.111           |
| Yxy                                 | 29.8662, 0.3207,<br>0.1597     |
| Android<br>(android.graphics.Color) | 4294911743<br>(0xFFFF26FF)     |
| YUV                                 | 127.6210, 62.7978,<br>111.7114 |
| Hunter-Lab                          | 54.6500, 100.2818,<br>-67.2097 |

# Details

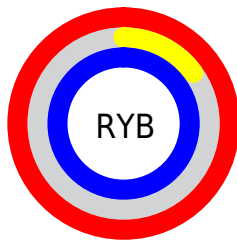
The XYZ color **59.9831, 29.8662, 97.2110** is a light color, and the websafe version is hex **FF33FF**. The color can be described as light washed magenta. A complement of this color would be **36.9100, 72.0724, 13.8011**, and the grayscale version is **20.1654, 21.2156, 23.1038**.

A 20% lighter version of the original color is **65.5354, 40.9708, 99.0618**, and **32.0704, 15.3687, 54.0995** is the 20% darker color. If you saturate the color by 10%, you get **59.4278, 28.7556, 97.0259**, and if you desaturate by 10%, it is **61.0962, 32.0924, 97.5821**.

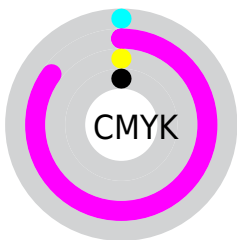
# Distribution



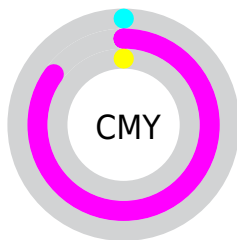
- Red (100%)
- Green (15%)
- Blue (100%)



- Red (100%)
- Yellow (15%)
- Blue (100%)



- Cyan (0%)
- Magenta (85%)
- Yellow (0%)
- Black (0%)




- Cyan (0%)
- Magenta (85%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 59.9831, 29.8662, 97.2110 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 59.9831, 29.8662, 97.2110 by changing the saturation by 10% instead.




 59.9831, 29.8662,  
97.2110


 59.9831, 29.8662,  
97.2110


414.3712,  
301.2803, 572.3835


 43.6544, 19.7371,  
73.3695

 103.9116, 59.4505,  
159.3374


 30.5957, 12.2041,  
53.7845


 132.2422, 79.6745,  
198.4595

 20.4415, 6.8828,  
38.0374


 165.3041,  
104.0322, 243.5121

 12.8265, 3.3889,  
25.7097

 203.4627,  
132.9080, 294.9139

 7.3853, 1.3380,  
16.3828

 247.0834,  
166.6863, 353.0834

 3.7527, 0.1703,  
9.6381

296.5314,

 1.5632, 0.0000,

205.7515, 418.4392

5.0572

352.1723,  
250.4881, 491.3996

■ 0.3682, 0.0000,  
2.2216

■ 0.0000, 0.0000,  
0.6868

■ 59.9831, 29.8662,  
97.2110

■ 59.9831, 29.8662,  
97.2110

■ 59.4278, 28.7556,  
97.0259

■ 61.0962, 32.0924,  
97.5821

■ 59.2900, 28.4800,  
96.9800

■ 62.8637, 35.6274,  
98.1712

■ 65.3657, 40.6313,  
99.0052

■ 68.6704, 47.2408,  
100.1068

72.8384, 55.5767,  
101.4961

77.9242, 65.7485,  
103.1914

83.9782, 77.8565,  
105.2094

91.0468, 91.9937,  
107.5656

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.



43.9860, 29.8662, 170.0016



59.9831, 29.8662, 97.2110



67.2961, 29.8662, 35.2749

# Triad

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



59.9831, 29.8662, 97.2110



29.3335, 29.8662, 0.0000



9.9799, 29.8662, 87.8886

# Complementary

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



59.9831, 29.8662, 97.2110



36.9100, 72.0724, 13.8011

# 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.



8.4088, 29.8662, 29.9109



59.9831, 29.8662, 97.2110



16.9954, 29.8662, 0.5430

# Square

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



59.9831, 29.8662, 97.2110



46.1933, 29.8662, 0.7999



10.4535, 29.8662, 5.6944



15.8693, 29.8662, 162.0523



# Rectangle

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



59.9831, 29.8662, 97.2110



64.8514, 29.8662, 13.2183



10.4535, 29.8662, 5.6944



9.0427, 29.8662, 64.9327

# Sweetspot

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



59.9836, 29.8672, 97.2112



77.4231, 64.7463, 103.0244



19.5435, 9.0196, 95.3186



16.1782, 13.0712, 21.9203



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.



59.9836, 29.8672, 97.2112



59.2900, 28.4800, 96.9800



47.1615, 24.7384, 29.6910



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.



59.9836, 29.8672, 97.2112



59.2900, 28.4800, 96.9800



41.7878, 74.0235, 39.4873



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 59.9831, 29.8662, 97.2110 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

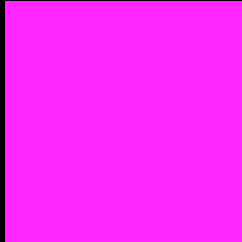
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 59.9831, 29.8662, 97.2110 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

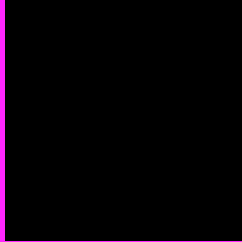
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 59.9831, 29.8662, 97.2110**

## **Background**



This preview shows how black text looks on a background with the XYZ color 59.9831, 29.8662, 97.2110.



This preview shows how white text looks on a background with the XYZ color 59.9831, 29.8662,



# 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

59.9831, 29.8662, 97.2110

### Protanopia

33.2124, 30.0675, 98.6609

### Deuteranopia

31.0917, 30.1658, 86.6220



## Tritanopia

43.5728, 29.6237, 18.7506

# Trichromacy



## Original Color

59.9831, 29.8662, 97.2110



## Protanomaly

36.7216, 24.4966, 97.4006



## Deuteranomaly

35.0869, 24.3022, 89.2277



## Tritanomaly

47.2995, 27.9777, 38.0292

# Monochromacy



## Original Color

59.9831, 29.8662, 97.2110



## Achromatopsia

20.5175, 21.5861, 23.5072



## Achromatomaly

29.1877, 20.2391, 42.4126

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 59.9831, 29.8662, 97.2110 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, 38, 255)` looks like.

```
.text, #text, p{  
    color:rgb(255, 38, 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, 38, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 38, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 59.9831, 29.8662, 97.2110 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, 38, 255) }
```



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

```
.border{ border-color:rgb(255, 38, 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, 38, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 38, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 38, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 38,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 59.9831, 29.8662, 97.2110 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 38, 255) }
```

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

```
.background{ background-color: rgb(255, 38,  
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](#).

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