

# Converting Colors

XYZ(28.1996, 15.8351, 96.1779)

Have a look what the booklet for  
XYZ(28.1996, 15.8351, 96.1779)  
contains.

<b>XYZ(28.1884, 15.7914, 96.1701)</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(28.1884, 15.7914,  
96.1701)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7947FF
RGB	121, 71, 255
RGB Percent	47%, 28%, 100%
CMY	0.5255, 0.7216, 0.0000
CMYK	0.53, 0.72, 0.00, 0.00
HSL	256°, 100%, 64%
HSV	256°, 72%, 100%
XYZ	28.1884, 15.7914, 96.1701
YIQ	106.9260, -29.2640, 67.8240

# Conversions

## Conversions Part 2

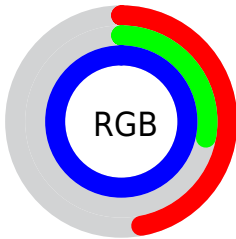
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	121, 71, 255
Decimal	7948287
CIE Lab	46.70, 63.18, -83.79
CIE LCh	47, 104.940, 307.018
Yxy	15.7914, 0.2011, 0.1127
Android (android.graphics.Color)	4286138367 (0xFF7947FF)
YUV	106.9260, 73.0005, 12.3429
Hunter-Lab	39.7384, 57.0766, -115.6697

# Details

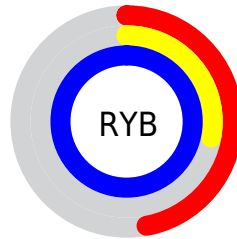
The XYZ color **28.1884, 15.7914, 96.1701** is a dark color, and the websafe version is hex **6633FF**. The color can be described as middle washed purple. A complement of this color would be **62.0721, 84.9530, 19.0871**, and the grayscale version is **13.7656, 14.4825, 15.7714**.

A 20% lighter version of the original color is **45.0248, 31.8257, 98.3776**, and **11.5017, 4.9983, 53.1819** is the 20% darker color. If you saturate the color by 10%, you get **24.5367, 11.9855, 95.6279**, and if you desaturate by 10%, it is **33.0225, 21.2158, 96.9623**.

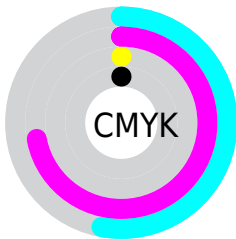
# Distribution



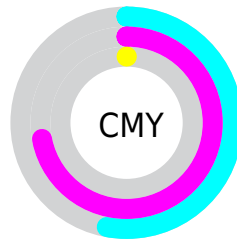
- Red (47%)
- Green (28%)
- Blue (100%)



- Red (47%)
- Yellow (28%)
- Blue (100%)



- Cyan (53%)
- Magenta (72%)
- Yellow (0%)
- Black (0%)




- Cyan (53%)
- Magenta (72%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.1884, 15.7914, 96.1701 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 28.1884, 15.7914, 96.1701 by changing the saturation by 10% instead.




 28.1884, 15.7914,  
96.1701


 28.1884, 15.7914,  
96.1701


285.4298,  
228.1076, 568.9839


 18.6089, 9.3767,  
72.5070


 56.1916, 36.2357,  
157.8896


 11.4904, 4.9877,  
53.0836


 75.3461, 51.0340,  
196.7831

 6.4674, 2.2400,  
37.4813


 98.4229, 69.3957,  
241.5904

 3.1746, 0.7417,  
25.2817

 125.7874, 91.7051,  
292.7301

 1.2468, 0.0000,  
16.0661

 157.8050,  
118.3466, 350.6208

 0.1428, 0.0000,  
9.4161

194.8411,

 0.0000, 0.0000,

149.7046, 415.6810

4.9131

237.2609,  
186.1635, 488.3292

■ 0.0000, 0.0000,  
2.1385

■ 0.0000, 0.0000,  
0.6385

■ 28.1884, 15.7914,  
96.1701

■ 28.1884, 15.7914,  
96.1701

■ 24.5367, 11.9855,  
95.6279

■ 33.0225, 21.2158,  
96.9623

■ 21.9444, 9.5990,  
95.3039

■ 39.1387, 28.4227,  
98.0310

■ 20.5258, 8.4963,  
95.1659

■ 46.6282, 37.5567,  
99.3993

■ 55.5728, 48.7469,  
101.0878

■ 66.0475, 62.1110,  
103.1153

■ 78.1220, 77.7577,  
105.4990

■ 91.8617, 95.7884,  
108.2551

■ 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.



17.2483, 15.7914, 130.1525



28.1884, 15.7914, 96.1701



37.5453, 15.7914, 45.0915

# Triad

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



28.1884, 15.7914, 96.1701



22.9231, 15.7914, 0.0000



3.4847, 15.7914, 24.0661

# Complementary

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



28.1884, 15.7914, 96.1701



62.0721, 84.9530, 19.0871

# 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.



3.9813, 15.7914, 4.1173



28.1884, 15.7914, 96.1701



12.9729, 15.7914, 0.0000

# Square

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



28.1884, 15.7914, 96.1701



33.7449, 15.7914, 1.2339



6.7518, 15.7914, 0.0000



4.9299, 15.7914, 68.3932



# Rectangle

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



28.1884, 15.7914, 96.1701



40.1155, 15.7914, 19.9331



6.7518, 15.7914, 0.0000



3.4443, 15.7914, 14.7183

# Sweetspot

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



28.1892, 15.7918, 96.1701



66.2248, 62.3391, 103.1500



42.7037, 52.6699, 102.5233



13.5322, 12.5180, 21.9529



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.



28.1892, 15.7918, 96.1701



23.1573, 10.6665, 95.4460



47.4737, 25.7333, 97.0726



17.4662, 17.6165, 22.7297



10.8465, 4.5021, 49.7319



1.1553, 0.4895, 4.8469



# Inverse Universe

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



54.5117, 30.1738, 60.7039



51.6051, 26.2829, 53.8088



43.8280, 75.5478, 18.2333



18.5696, 18.2112, 21.6167



26.2289, 12.9809, 25.6537

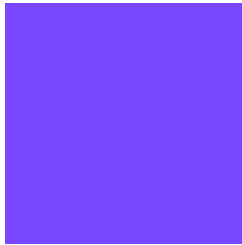


2.5997, 1.2822, 2.7393



# Previews

## White Background



This preview shows how the XYZ color 28.1884, 15.7914, 96.1701 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

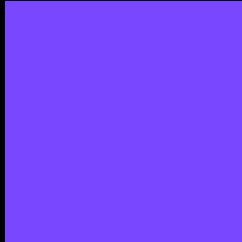
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 28.1884, 15.7914, 96.1701 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

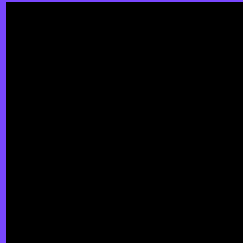
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 28.1884, 15.7914, 96.1701**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.1884, 15.7914, 96.1701.



This preview shows how white text looks on a background with the XYZ color 28.1884, 15.7914,



# 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

28.1884, 15.7914, 96.1701

### Protanopia

18.6086, 15.6899, 72.5687

### Deuteranopia

15.5308, 15.6605, 52.6563



## Tritanopia

13.2553, 15.6769, 21.7294

# Trichromacy



## Original Color

28.1884, 15.7914, 96.1701

## Protanomaly

19.9485, 14.3623, 80.3181

## Deuteranomaly

17.8011, 14.2287, 66.7739

## Tritanomaly

16.7229, 14.5258, 40.9521

# Monochromacy



## Original Color

28.1884, 15.7914, 96.1701

## Achromatopsia

13.9749, 14.7027, 16.0113

## Achromatomaly

17.1178, 14.0234, 35.5228

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.1884, 15.7914, 96.1701 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(121, 71, 255)` looks like.

```
.text, #text, p{  
    color:rgb(121, 71, 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(121, 71, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 71, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 28.1884, 15.7914, 96.1701 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(121, 71, 255) }
```



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

```
.border{ border-color:rgb(121, 71, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 71, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 71, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 71, 255);  
box-shadow:4px 4px 4px 4px rgb(121, 71,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.1884, 15.7914, 96.1701 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 71, 255) }
```

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

```
.background{ background-color: rgb(121, 71,  
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**