

# Converting Colors

XYZ(18.7061, 7.9600, 76.9317)

Have a look what the booklet for  
XYZ(18.7061, 7.9600, 76.9317)  
contains.

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# Color

**XYZ(18.6853, 7.9500,  
76.8936)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5900E8
RGB	89, 0, 232
RGB Percent	35%, 0%, 91%
CMY	0.6509, 1.0000, 0.0902
CMYK	0.62, 1.00, 0.00, 0.09
HSL	263°, 100%, 45%
HSV	263°, 100%, 91%
XYZ	18.6853, 7.9500, 76.8936
YIQ	53.0590, -21.4280, 91.0200

# Conversions

## Conversions Part 2

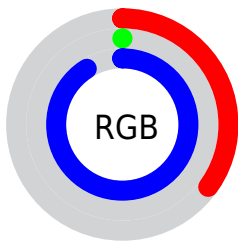
<b>Format</b>	<b>Color</b>
<b>RYB</b>	89, 0, 232
Decimal	5832936
CIELab	33.88, 75.74, -92.11
CIELCh	34, 119.246, 309.430
Yxy	7.9500, 0.1805, 0.0768
Android (android.graphics.Color)	4284023016 (0xFF5900E8)
YUV	53.0590, 88.2179, 31.5203
Hunter-Lab	28.1957, 68.9493, -141.9548

# Details

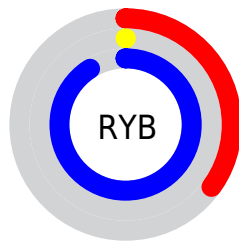
The XYZ color **18.6853, 7.9500, 76.8936** is a dark color, and the websafe version is hex **6600FF**. The color can be described as dark washed blue. A complement of this color would be **40.1831, 63.5524, 10.1490**, and the grayscale version is **3.2904, 3.4618, 3.7699**.

A 20% lighter version of the original color is **34.2764, 19.3201, 96.5303**, and **7.7379, 3.0951, 40.7470** is the 20% darker color. If you saturate the color by 10%, you get **18.6861, 7.9504, 76.8939**, and if you desaturate by 10%, it is **20.5047, 9.3487, 77.0680**.

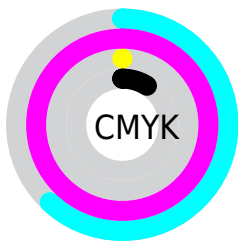
# Distribution



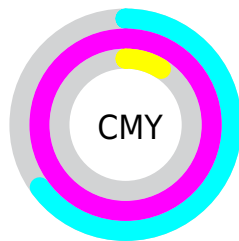
- Red (35%)
- Green (0%)
- Blue (91%)



- Red (35%)
- Yellow (0%)
- Blue (91%)



- Cyan (62%)
- Magenta (100%)
- Yellow (0%)
- Black (9%)




- Cyan (65%)
- Magenta (100%)
- Yellow (9%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.6853, 7.9500, 76.8936 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 18.6853, 7.9500, 76.8936 by changing the saturation by 10% instead.





 18.6853, 7.9500,  
76.8936


 18.6853, 7.9500,  
76.8936


237.6775,  
175.3393, 503.8292


 11.5458, 4.0630,  
56.6545


 40.7226, 21.8604,  
130.7609

 6.5052, 1.7089,  
40.3204


 56.3512, 32.6525,  
165.2262


 3.1982, 0.4294,  
27.4728


 75.5401, 46.5151,  
205.2707

 1.2594, 0.0000,  
17.6930

 98.6547, 63.8326,  
251.3128

 0.1525, 0.0000,  
10.5627

 126.0604, 84.9894,  
303.7712


 0.0000, 0.0000,  
5.6631


 158.1225,

 0.0000, 0.0000,


110.3698, 363.0644

2.5759


 195.2064,  
140.3583, 429.6109

 0.0000, 0.0000,  
0.8800


 0.0000, 0.0000,  
0.0000

 18.6853, 7.9500,  
76.8936


 18.6853, 7.9500,  
76.8936

 18.6861, 7.9504,  
76.8939

 20.5047, 9.3487,  
77.0680

 22.9761, 11.6357,  
77.3791

 26.2317, 15.0546,  
77.8675

 30.3529, 19.7497,  
78.5565

■ 35.4091, 25.8427,  
79.4661

■ 41.4623, 33.4407,  
80.6136

■ 48.5682, 42.6401,  
82.0147

■ 56.7785, 53.5288,  
83.6837

■ 66.1412, 66.1886,  
85.6339

# Harmonies

## Analogous

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



9.8090, 7.9500, 114.9239



18.6853, 7.9500, 76.8936



26.4987, 7.9500, 28.4732

# Triad

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



18.6853, 7.9500, 76.8936



12.8908, 7.9500, 0.0000



0.6931, 7.9500, 15.9974

# Complementary

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



18.6853, 7.9500, 76.8936



40.1831, 63.5524, 10.1490

# 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.



0.8394, 7.9500, 1.1673



18.6853, 7.9500, 76.8936



5.6778, 7.9500, 0.0000

# Square

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



18.6853, 7.9500, 76.8936



22.0226, 7.9500, 0.0000



2.0534, 7.9500, 0.0000



1.4111, 7.9500, 57.5806



# Rectangle

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



18.6853, 7.9500, 76.8936



28.3910, 7.9500, 9.0196



2.0534, 7.9500, 0.0000



0.6539, 7.9500, 8.3027

# Sweetspot

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



18.6861, 7.9504, 76.8939



60.0402, 52.6482, 101.6054



24.3980, 25.4912, 79.9786



12.0192, 10.1843, 21.5822



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.



18.6861, 7.9504, 76.8939



23.0689, 9.8073, 95.2849



39.7241, 18.7959, 77.8785



14.1030, 14.1553, 18.1333



10.5039, 4.4808, 42.6944



0.8773, 0.3832, 3.1597



# Inverse Universe

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



38.2362, 19.1388, 27.6625



47.3402, 23.7001, 34.0531



29.3105, 57.9473, 9.6401



14.7485, 14.5166, 16.8759



21.2905, 10.6504, 15.6905

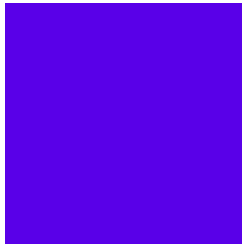


1.6183, 0.8050, 1.3966



# Previews

## White Background



This preview shows how the XYZ color 18.6853, 7.9500, 76.8936 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

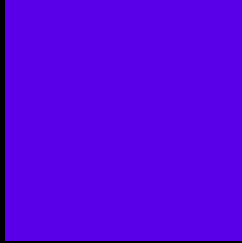
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the XYZ color 18.6853, 7.9500, 76.8936 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

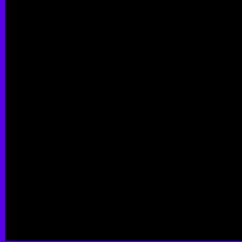
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 18.6853, 7.9500, 76.8936**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.6853, 7.9500, 76.8936.



This preview shows how white text looks on a background with the XYZ color 18.6853, 7.9500,



# 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

18.6853, 7.9500, 76.8936

### Protanopia

9.4252, 8.1291, 36.1943

### Deuteranopia

7.9039, 8.2341, 25.9837



## Tritanopia

5.8138, 8.1754, 12.5808

# Trichromacy



## Original Color

18.6853, 7.9500, 76.8936

## Protanomaly

10.9216, 6.2624, 48.7772

## Deuteranomaly

9.4116, 5.8704, 40.1722

## Tritanomaly

7.2471, 5.3087, 27.8368

# Monochromacy



## Original Color

18.6853, 7.9500, 76.8936

## Achromatopsia

3.3839, 3.5601, 3.8770

## Achromatomaly

6.0888, 3.6103, 17.5155

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.6853, 7.9500, 76.8936 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(89, 0, 232)` looks like.

```
.text, #text, p{  
    color:rgb(89, 0, 232)  
}
```

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(89, 0, 232) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 0, 232) }
```

## Border

The CSS property to change the border of an element to XYZ 18.6853, 7.9500, 76.8936 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(89, 0, 232) }
```



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

```
.border{ border-color:rgb(89, 0, 232) }
```

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

Here you see how a box with a 4 pixel rgb(89, 0, 232) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(89, 0, 232); -webkit-box-  
shadow:4px 4px 4px 4px rgb(89, 0, 232);  
box-shadow:4px 4px 4px 4px rgb(89, 0, 232)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 18.6853, 7.9500, 76.8936 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 0, 232) }
```

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

```
.background{ background-color: rgb(89, 0,  
232) }
```

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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