

# Converting Colors

XYZ(18.2066, 8.5328, 41.7576)

Have a look what the booklet for  
XYZ(18.2066, 8.5328, 41.7576)  
contains.

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# Color

**XYZ(18.1856, 8.5181,  
41.7600)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8903B0
RGB	137, 3, 176
RGB Percent	54%, 1%, 69%
CMY	0.4627, 0.9882, 0.3098
CMYK	0.22, 0.98, 0.00, 0.31
HSL	286°, 97%, 35%
HSV	286°, 98%, 69%
XYZ	18.1856, 8.5181, 41.7600
YIQ	62.7880, 24.3310, 82.2110

# Conversions

## Conversions Part 2

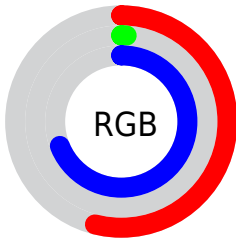
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	137, 3, 176
Decimal	8979376
CIE <sub>Lab</sub>	35.04, 68.12, -57.31
CIE <sub>LCh</sub>	35, 89.021, 319.924
Yxy	8.5181, 0.2656, 0.1244
Android (android.graphics.Color)	4287169456 (0xFF8903B0)
YUV	62.7880, 55.8135, 65.0839
Hunter-Lab	29.1858, 60.1478, -64.4041

# Details

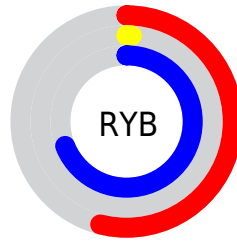
The XYZ color **18.1856, 8.5181, 41.7600** is a dark color, and the websafe version is hex **9933CC**. A complement of this color would be **16.4969, 31.5497, 5.3066**, and the grayscale version is **4.6127, 4.8530, 5.2849**.

A 20% lighter version of the original color is **40.0096, 23.0773, 79.4364**, and **6.8211, 3.1106, 18.6532** is the 20% darker color. If you saturate the color by 10%, you get **18.0426, 8.3960, 41.7441**, and if you desaturate by 10%, it is **19.0769, 9.3167, 41.8673**.

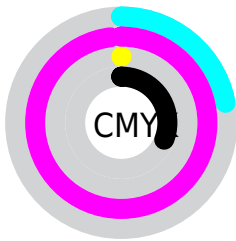
# Distribution



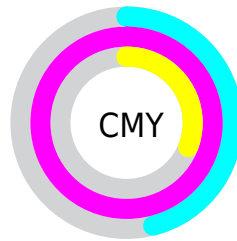
- Red (54%)
- Green (1%)
- Blue (69%)



- Red (54%)
- Yellow (1%)
- Blue (69%)



- Cyan (22%)
- Magenta (98%)
- Yellow (0%)
- Black (31%)



- Cyan (46%)
- Magenta (99%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.1856, 8.5181, 41.7600 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 18.1856, 8.5181, 41.7600 by changing the saturation by 10% instead.



18.1856, 8.5181,  
41.7600

18.1856, 8.5181,  
41.7600

234.9405,  
179.7411, 369.2574

11.1838, 4.4282,  
28.5892

39.8809, 22.9680,  
79.1024

6.2588, 1.9159,  
18.5274

55.3052, 34.0969,  
104.1112

3.0452, 0.5579,  
11.1560

74.2677, 48.3408,  
133.9030

1.1777, 0.0000,  
6.0563

97.1337, 66.0843,  
168.8965

0.0887, 0.0000,  
2.8100

124.2686, 87.7117,  
209.5101

0.0000, 0.0000,  
0.9985

156.0378,

0.0000, 0.0000,

113.6073, 256.1624

0.0000

192.8067,  
144.1557, 309.2720

18.1856, 8.5181,  
41.7600

18.1856, 8.5181,  
41.7600

18.0426, 8.3960,  
41.7441

19.0769, 9.3167,  
41.8673

20.2023, 10.5482,  
42.0457

21.6184, 12.3249,  
42.3140

23.3587, 14.7133,  
42.6833

25.4517, 17.7700,  
43.1630

■ 27.9225, 21.5453,  
43.7615

■ 30.7942, 26.0846,  
44.4863

■ 34.0877, 31.4293,  
45.3443

■ 37.8223, 37.6181,  
46.3421

# Harmonies

## Analogous

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



11.9285, 8.5181, 68.8832



18.1856, 8.5181, 41.7600



22.1400, 8.5181, 15.1221

# Triad

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



18.1856, 8.5181, 41.7600



9.9403, 8.5181, 0.0000



1.9256, 8.5181, 22.5533

# Complementary

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



18.1856, 8.5181, 41.7600



16.4969, 31.5497, 5.3066

# 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.



1.7628, 8.5181, 5.1705



18.1856, 8.5181, 41.7600



5.1876, 8.5181, 0.0000

# Square

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



18.1856, 8.5181, 41.7600



16.2151, 8.5181, 0.0000



2.6639, 8.5181, 0.2168



3.2740, 8.5181, 51.7869



# Rectangle

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



18.1856, 8.5181, 41.7600



22.1489, 8.5181, 5.2203



2.6639, 8.5181, 0.2168



1.7611, 8.5181, 15.0207

# Sweetspot

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



18.1860, 8.5184, 41.7602



55.1769, 46.2309, 80.5106



8.7516, 4.9089, 41.5607



11.4761, 9.2540, 17.3257



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



18.1860, 8.5184, 41.7602



32.5187, 15.1221, 75.7002



21.9577, 10.9036, 22.0202



8.6589, 8.5482, 10.6999



13.2903, 6.1872, 30.6308



0.4644, 0.2185, 0.9659



# Inverse Universe

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



18.3552, 9.4626, 3.0500



33.0868, 16.9860, 4.7525



16.1203, 31.2931, 8.1116



8.5722, 8.5356, 9.2458



13.4327, 6.8907, 2.1728



0.4448, 0.2257, 0.1852



# Previews

## White Background



This preview shows how the XYZ color 18.1856, 8.5181, 41.7600 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

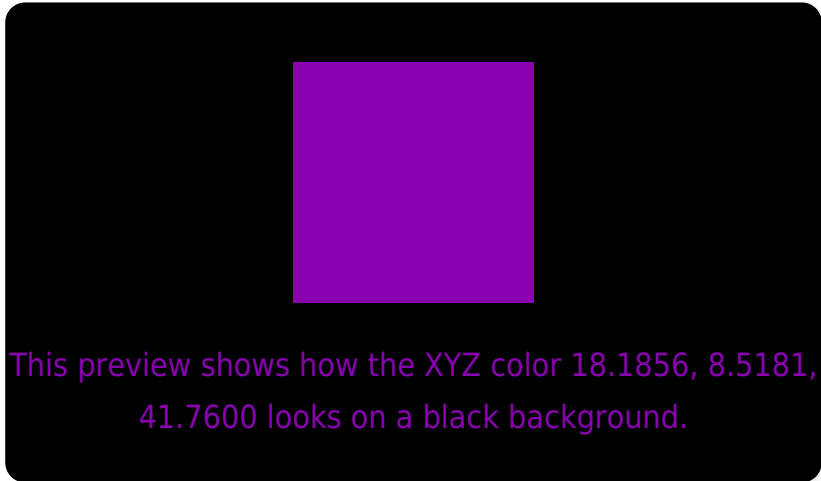
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

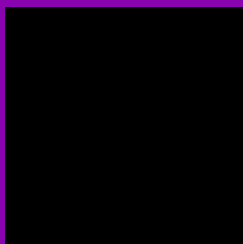
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 18.1856, 8.5181, 41.7600**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.1856, 8.5181, 41.7600.



This preview shows how white text looks on a background with the XYZ color 18.1856, 8.5181,



# 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

18.1856, 8.5181, 41.7600

### Protanopia

10.4637, 9.0131, 40.2179

### Deuteranopia

8.9941, 9.0508, 30.5511



## Tritanopia

11.3902, 8.8882, 7.5938

# Trichromacy



## Original Color

18.1856, 8.5181, 41.7600

## Protanomaly

10.1313, 6.2414, 40.2059

## Deuteranomaly

9.0747, 6.0445, 33.9461

## Tritanomaly

12.5600, 7.5365, 15.8316

# Monochromacy



## Original Color

18.1856, 8.5181, 41.7600

## Achromatopsia

4.7246, 4.9707, 5.4130

## Achromatomaly

7.5081, 4.7590, 13.6196

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.1856, 8.5181, 41.7600 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(137, 3, 176)` looks like.

```
.text, #text, p{  
    color:rgb(137, 3, 176)  
}
```

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(137, 3, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(137, 3, 176) }
```

## Border

The CSS property to change the border of an element to XYZ 18.1856, 8.5181, 41.7600 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(137, 3, 176) }
```



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

```
.border{ border-color:rgb(137, 3, 176) }
```

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

Here you see how a box with a 4 pixel rgb(137, 3, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(137, 3, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(137, 3, 176);  
box-shadow:4px 4px 4px 4px rgb(137, 3,  
176) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.1856, 8.5181, 41.7600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(137, 3, 176) }
```

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

```
.background{ background-color: rgb(137, 3,  
176) }
```

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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