

# Converting Colors

XYZ(18.8423, 13.5198, 21.4753)

Have a look what the booklet for  
XYZ(18.8423, 13.5198, 21.4753)  
contains.

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# Color

**XYZ(18.8473, 13.5396,  
21.3587)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	94507E
RGB	148, 80, 126
RGB Percent	58%, 31%, 49%
CMY	0.4196, 0.6863, 0.5059
CMYK	0.00, 0.46, 0.15, 0.42
HSL	319°, 30%, 45%
HSV	319°, 46%, 58%
XYZ	18.8473, 13.5396, 21.3587
YIQ	105.5760, 25.7620, 28.7220

# Conversions

## Conversions Part 2

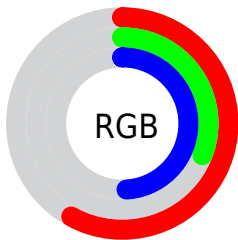
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	148, 80, 126
Decimal	9719934
CIE <sub>Lab</sub>	43.57, 34.82, -13.51
CIE <sub>LCh</sub>	44, 37.350, 338.796
Yxy	13.5396, 0.3507, 0.2519
Android (android.graphics.Color)	4287910014 (0xFF94507E)
YUV	105.5760, 10.0690, 37.2058
Hunter-Lab	36.7962, 27.0358, -8.6581

# Details

The XYZ color **18.8473, 13.5396, 21.3587** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **16.2971, 23.8450, 16.3150**, and the grayscale version is **13.5527, 14.2585, 15.5275**.

A 20% lighter version of the original color is **40.8816, 32.1838, 46.7052**, and **6.5489, 3.9487, 7.4382** is the 20% darker color. If you saturate the color by 10%, you get **17.5791, 11.4857, 19.4478**, and if you desaturate by 10%, it is **20.3699, 16.0781, 23.4276**.

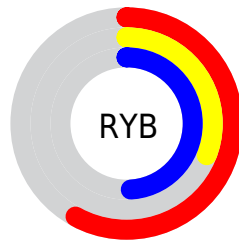
# Distribution



Red (58%)

Green (31%)

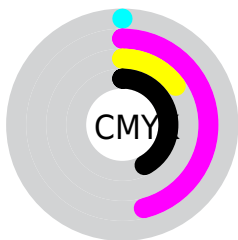
Blue (49%)



Red (58%)

Yellow (31%)

Blue (49%)

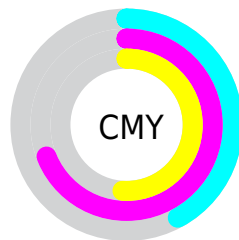


Cyan (0%)

Magenta (46%)

Yellow (15%)

Black (42%)



Cyan (42%)

Magenta (69%)

Yellow (51%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 18.8473, 13.5396, 21.3587 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 18.8473, 13.5396, 21.3587 by changing the saturation by 10% instead.



18.8473, 13.5396,  
21.3587

18.8473, 13.5396,  
21.3587

238.5588,  
214.3475, 272.0221

11.6633, 7.8012,  
13.1927

40.9948, 32.2699,  
46.5723

6.5854, 3.9680,  
7.4291

56.6890, 46.0305,  
64.4569

3.2482, 1.6557,  
3.6494

75.9507, 63.2339,  
86.4181

1.2864, 0.3947,  
1.4350

99.1453, 84.2646,  
112.8744

0.1730, 0.0000,  
0.1688

126.6380,  
109.5069, 144.2445

0.0000, 0.0000,  
0.0000

158.7942,

139.3452, 180.9467

195.9794,  
174.1640, 223.3998

■ 18.8473, 13.5396,  
21.3587

■ 18.8473, 13.5396,  
21.3587

■ 17.5791, 11.4857,  
19.4478

■ 20.3699, 16.0781,  
23.4276

■ 16.5479, 9.8827,  
17.6878

■ 22.1601, 19.1282,  
25.6596

■ 15.7361, 8.6956,  
16.0719

■ 24.2319, 22.7170,  
28.0603

■ 15.1232, 7.8834,  
14.5922

■ 26.5978, 26.8695,  
30.6350

■ 14.6791, 7.3867,  
13.2376

■ 29.2696, 31.6087,  
33.3885

■ 14.5187, 7.2183,  
12.7140

■ 32.2583, 36.9567,  
36.3254

■ 35.5745, 42.9341,  
39.4501

■ 39.2282, 49.5608,  
42.7669

■ 43.2291, 56.8556,  
46.2797

# Harmonies

## Analogous

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



16.7184, 13.5396, 31.1674



18.8473, 13.5396, 21.3587



19.2554, 13.5396, 12.4169

# Triad

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



18.8473, 13.5396, 21.3587



12.0291, 13.5396, 3.8754



8.9693, 13.5396, 27.2910

# Complementary

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



18.8473, 13.5396, 21.3587



16.2971, 23.8450, 16.3150

# 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.



8.0784, 13.5396, 17.3413



18.8473, 13.5396, 21.3587



9.6611, 13.5396, 5.4239

# Square

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



18.8473, 13.5396, 21.3587



15.0091, 13.5396, 4.2564



8.3110, 13.5396, 9.6564



10.9427, 13.5396, 35.3972



# Rectangle

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



18.8473, 13.5396, 21.3587



18.4449, 13.5396, 8.2725



8.3110, 13.5396, 9.6564



8.5480, 13.5396, 23.9268

# Sweetspot

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



18.8477, 13.5402, 21.3590



43.4137, 41.2318, 50.2451



13.6414, 10.6738, 29.3584



9.7322, 9.1012, 11.2707



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896



# Same Dimension

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



18.8477, 13.5402, 21.3590



30.9859, 20.2161, 34.2645



17.0342, 12.8148, 11.8090



5.9563, 5.8776, 6.8760



12.4140, 6.1707, 10.9270



0.1655, 0.0809, 0.2050



# Inverse Universe

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



18.8477, 13.5402, 21.3590



30.9859, 20.2161, 34.2645



18.3095, 24.6500, 26.9124



5.9563, 5.8776, 6.8760



12.4140, 6.1707, 10.9270

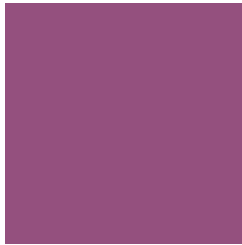


0.1655, 0.0809, 0.2050



# Previews

## White Background



This preview shows how the XYZ color 18.8473, 13.5396, 21.3587 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

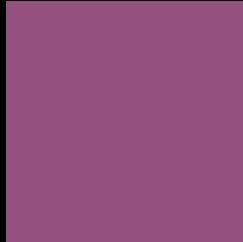
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 18.8473, 13.5396, 21.3587 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 18.8473, 13.5396, 21.3587**

## **Background**



This preview shows how black text looks on a background with the XYZ color 18.8473, 13.5396, 21.3587.



This preview shows how white text looks on a background with the XYZ color 18.8473, 13.5396,



# 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

18.8473, 13.5396, 21.3587

### Protanopia

14.0475, 13.7310, 27.5012

### Deuteranopia

13.8755, 13.6556, 20.3168



## Tritanopia

16.8856, 13.5360, 12.0787

# Trichromacy



## Original Color

18.8473, 13.5396, 21.3587

## Protanomaly

15.1287, 13.2277, 25.0484

## Deuteranomaly

15.2352, 13.2518, 20.4938

## Tritanomaly

17.3972, 13.3803, 15.0303

# Monochromacy



## Original Color

18.8473, 13.5396, 21.3587

## Achromatopsia

13.6994, 14.4128, 15.6956

## Achromatomaly

15.1405, 13.8066, 17.4897

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 18.8473, 13.5396, 21.3587 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(148, 80, 126)` looks like.

```
.text, #text, p{  
    color:rgb(148, 80, 126)  
}
```

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(148, 80, 126) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 80, 126) }
```

## Border

The CSS property to change the border of an element to XYZ 18.8473, 13.5396, 21.3587 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(148, 80, 126) }
```



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

```
.border{ border-color:rgb(148, 80, 126) }
```

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

Here you see how a box with a 4 pixel `rgb(148, 80, 126)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(148, 80, 126); -webkit-box-shadow:4px 4px 4px 4px rgb(148, 80, 126); box-shadow:4px 4px 4px 4px rgb(148, 80, 126) }
```

# Background

The CSS property to change the background color of an element to XYZ 18.8473, 13.5396, 21.3587 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 80, 126) }
```

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

```
.background{ background-color: rgb(148, 80,  
126) }
```

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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