

Converting Colors

XYZ(13.0314, 9.2551, 18.3869)

Have a look what the booklet for
XYZ(13.0314, 9.2551, 18.3869)
contains.

XYZ(12.9640, 9.1975, 18.2316)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.9640, 9.1975,
18.2316)**

Conversions

Conversions Part 1

Format	Color
Hex	784276
RGB	120, 66, 118
RGB Percent	47%, 26%, 46%
CMY	0.5294, 0.7412, 0.5373
CMYK	0.00, 0.45, 0.02, 0.53
HSL	302°, 29%, 36%
HSV	302°, 45%, 47%
XYZ	12.9640, 9.1975, 18.2316
YIQ	88.0740, 15.4920, 27.6200

Conversions

Conversions Part 2

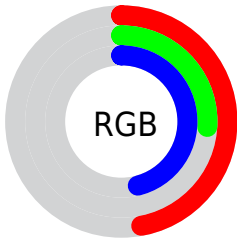
Format	Color
R_{YB}	120, 66, 118
Decimal	7881334
CIE _{Lab}	36.36, 31.68, -19.96
CIE _{LCh}	36, 37.441, 327.792
Yxy	9.1975, 0.3209, 0.2277
Android (android.graphics.Color)	4286071414 (0xFF784276)
YUV	88.0740, 14.7535, 27.9991
Hunter-Lab	30.3274, 23.2302, -14.4136

Details

The XYZ color **12.9640, 9.1975, 18.2316** is a dark color, and the websafe version is hex **663366**. A complement of this color would be **10.0070, 15.0090, 7.8390**, and the grayscale version is **9.2587, 9.7408, 10.6078**.

A 20% lighter version of the original color is **30.9566, 24.3917, 41.1067**, and **3.8163, 2.1644, 5.8469** is the 20% darker color. If you saturate the color by 10%, you get **12.3089, 7.9292, 17.8833**, and if you desaturate by 10%, it is **13.7670, 10.7609, 18.6300**.

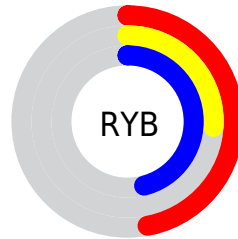
Distribution



Red (47%)

Green (26%)

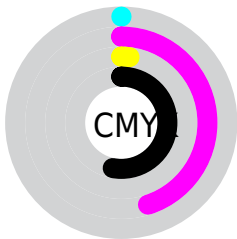
Blue (46%)



Red (47%)

Yellow (26%)

Blue (46%)

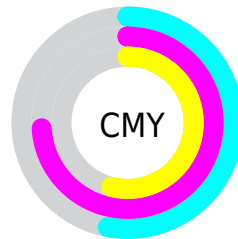


Cyan (0%)

Magenta (45%)

Yellow (2%)

Black (53%)



Cyan (53%)

Magenta (74%)

Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9640, 9.1975, 18.2316 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 12.9640, 9.1975, 18.2316 by changing the saturation by 10% instead.

12.9640, 9.1975,
18.2316

12.9640, 9.1975,
18.2316

204.3291,
184.8445, 254.4530

7.4806, 4.8702,
10.9452

30.8410, 24.2747,
41.2508

3.8134, 2.1713,
5.9163

43.9652, 35.7934,
57.8208

1.5971, 0.7043,
2.7263

60.3671, 50.4781,
78.3223

0.3905, 0.0000,
0.9566

80.4121, 68.7131,
103.1740

0.0000, 0.0000,
0.0000

104.4654, 90.8829,
132.7944

132.8924,

117.3718, 167.6020

166.0585,
148.5642, 208.0154

■ 12.9640, 9.1975,
18.2316

■ 12.9640, 9.1975,
18.2316

■ 12.3089, 7.9292,
17.8833

■ 13.7670, 10.7609,
18.6300

■ 11.7914, 6.9362,
17.5813

■ 14.7255, 12.6352,
19.0808

■ 11.4015, 6.1983,
17.3226

■ 15.8474, 14.8364,
19.5867

■ 11.1276, 5.6920,
17.1030

■ 17.1403, 17.3792,
20.1502

■ 10.9505, 5.3792,
16.9164

■ 18.6109, 20.2772,
20.7735

■ 10.8725, 5.2438,
16.8268

■ 20.2657, 23.5434,
21.4589

■ 22.1109, 27.1902,
22.2083

■ 24.1523, 31.2293,
23.0238

■ 26.3956, 35.6719,
23.9071

Harmonies

Analogous

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



10.9315, 9.1975, 25.5756



12.9640, 9.1975, 18.2316



13.8498, 9.1975, 10.5022

Triad

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



12.9640, 9.1975, 18.2316



8.9106, 9.1975, 2.0109



5.4304, 9.1975, 17.0200

Complementary

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



12.9640, 9.1975, 18.2316



10.0070, 15.0090, 7.8390

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.



5.0754, 9.1975, 9.5422



12.9640, 9.1975, 18.2316



6.8662, 9.1975, 2.5414

Square

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



12.9640, 9.1975, 18.2316



11.2719, 9.1975, 2.7387



5.5533, 9.1975, 4.7333



6.6221, 9.1975, 24.6894

Rectangle

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



12.9640, 9.1975, 18.2316



13.5733, 9.1975, 6.6693



5.5533, 9.1975, 4.7333



5.2193, 9.1975, 14.3248

Sweetspot

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



12.9643, 9.1979, 18.2318



28.2329, 26.8027, 34.6081



7.7088, 6.4747, 18.6131



6.5965, 6.1664, 8.1601



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256

Same Dimension

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



12.9643, 9.1979, 18.2318



21.6154, 13.8816, 31.4343



11.5913, 8.6487, 11.0017



4.1484, 4.0751, 4.9790



11.8598, 5.7201, 18.3505



56.5004, 27.2565, 87.1539

Inverse Universe

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



12.9643, 9.1979, 18.2318



21.6154, 13.8816, 31.4343



11.0201, 15.4142, 13.1737



4.1484, 4.0751, 4.9790



11.8598, 5.7201, 18.3505



56.5004, 27.2565, 87.1539

Previews

White Background



This preview shows how the XYZ color 12.9640, 9.1975, 18.2316 looks on a white background.

Color Contrast Check

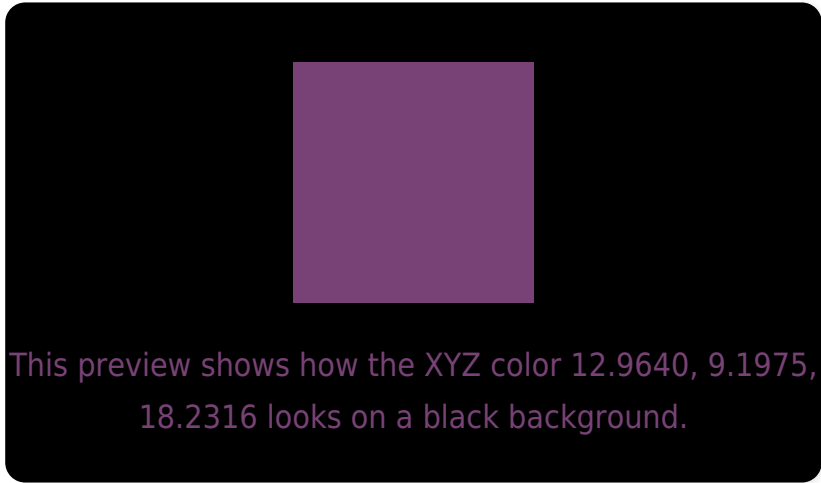
Large Text (above 18pt) WCAG AA ✓ Pass

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

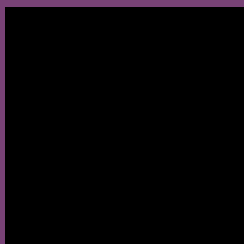
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9640, 9.1975, 18.2316

Background



This preview shows how black text looks on a background with the XYZ color 12.9640, 9.1975, 18.2316.

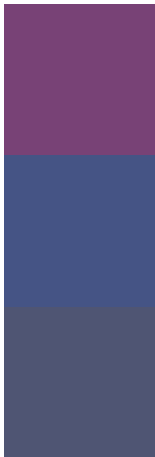


This preview shows how white text looks on a background with the XYZ color 12.9640, 9.1975,

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

12.9640, 9.1975, 18.2316

Protanopia

9.8582, 9.2993, 23.4657

Deuteranopia

9.5675, 9.3971, 17.5292



Tritanopia

11.0343, 9.2562, 8.7945

Trichromacy



Original Color

12.9640, 9.1975, 18.2316

Protanomaly

10.5747, 8.9410, 21.5905

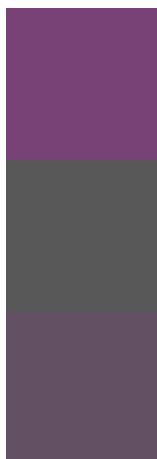
Deuteranomaly

10.4929, 9.0894, 17.7244

Tritanomaly

11.6739, 9.2248, 11.7550

Monochromacy



Original Color

12.9640, 9.1975, 18.2316

Achromatopsia

9.2757, 9.7587, 10.6273

Achromatomaly

10.3763, 9.3475, 13.0617

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9640, 9.1975, 18.2316 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(120, 66, 118)` looks like.

```
.text, #text, p{  
    color:rgb(120, 66, 118)  
}
```

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(120, 66, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 66, 118) }
```

Border

The CSS property to change the border of an element to XYZ 12.9640, 9.1975, 18.2316 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(120, 66, 118) }
```


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

```
.border{ border-color:rgb(120, 66, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 66, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 66, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 66, 118);  
box-shadow:4px 4px 4px 4px rgb(120, 66,  
118) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9640, 9.1975, 18.2316 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 66, 118) }
```

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

```
.background{ background-color: rgb(120, 66,  
118) }
```

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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