

Converting Colors

XYZ(12.8941, 7.8404, 17.6537)

Have a look what the booklet for
XYZ(12.8941, 7.8404, 17.6537)
contains.

XYZ(12.8720, 7.8339, 17.6633)	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(12.8720, 7.8339,
17.6633)**

Conversions

Conversions Part 1

Format	Color
Hex	7E3075
RGB	126, 48, 117
RGB Percent	49%, 19%, 46%
CMY	0.5059, 0.8117, 0.5412
CMYK	0.00, 0.62, 0.07, 0.51
HSL	307°, 45%, 34%
HSV	307°, 62%, 49%
XYZ	12.8720, 7.8339, 17.6633
YIQ	79.1880, 24.3390, 37.9950

Conversions

Conversions Part 2

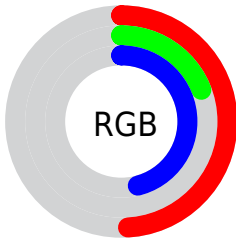
Format	Color
R_{YB}	126, 48, 117
Decimal	8269941
CIE _{Lab}	33.63, 42.83, -23.50
CIE _{LCh}	34, 48.849, 331.244
Yxy	7.8339, 0.3355, 0.2042
Android (android.graphics.Color)	4286460021 (0xFF7E3075)
YUV	79.1880, 18.6413, 41.0541
Hunter-Lab	27.9891, 33.1100, -17.8242

Details

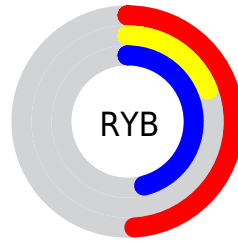
The XYZ color **12.8720, 7.8339, 17.6633** is a dark color, and the websafe version is hex **663366**. A complement of this color would be **9.4187, 15.8457, 6.4336**, and the grayscale version is **7.4303, 7.8173, 8.5130**.

A 20% lighter version of the original color is **30.6793, 21.6120, 40.0907**, and **3.8674, 1.8732, 5.6266** is the 20% darker color. If you saturate the color by 10%, you get **12.3433, 6.9121, 17.0686**, and if you desaturate by 10%, it is **13.5490, 9.0499, 18.3141**.

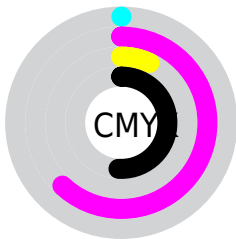
Distribution



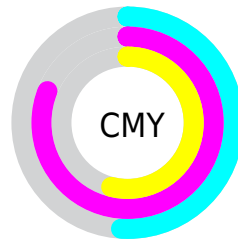
- Red (49%)
- Green (19%)
- Blue (46%)



- Red (49%)
- Yellow (19%)
- Blue (46%)



- Cyan (0%)
- Magenta (62%)
- Yellow (7%)
- Black (51%)



- Cyan (51%)
- Magenta (81%)
- Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8720, 7.8339, 17.6633 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 12.8720, 7.8339, 17.6633 by changing the saturation by 10% instead.

■ 12.8720, 7.8339,
17.6633

■ 12.8720, 7.8339,
17.6633

203.7499,
174.4233, 251.1384

■ 7.4169, 3.9888,
10.5416

■ 30.6769, 21.6322,
40.2689

■ 3.7728, 1.6673,
5.6492

■ 43.7574, 32.3542,
56.5899

■ 1.5744, 0.4024,
2.5677

■ 60.1103, 46.1373,
76.8144

■ 0.3756, 0.0000,
0.8757

■ 80.1012, 63.3659,
101.3609

■ 0.0000, 0.0000,
0.0000

■ 104.0952, 84.4244,
130.6481

■ 132.4577,

109.6973, 165.0943

165.5542,
139.5688, 205.1182

■ 12.8720, 7.8339,
17.6633

■ 12.8720, 7.8339,
17.6633

■ 12.3433, 6.9121,
17.0686

■ 13.5490, 9.0499,
18.3141

■ 11.9493, 6.2577,
16.5253

■ 14.3848, 10.5815,
19.0244

■ 11.6753, 5.8413,
16.0284

■ 15.3899, 12.4494,
19.7977

■ 11.4989, 5.5935,
15.6460

■ 16.5735, 14.6723,
20.6371

■ 17.9444, 17.2676,
21.5456

■ 19.5105, 20.2513,
22.5259

■ 21.2796, 23.6386,
23.5806

■ 23.2588, 27.4440,
24.7121

■ 25.4549, 31.6810,
25.9227

Harmonies

Analogous

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



10.4170, 7.8339, 28.1046



12.8720, 7.8339, 17.6633



13.7976, 7.8339, 8.2166

Triad

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



12.8720, 7.8339, 17.6633



7.3357, 7.8339, 0.6399



3.8811, 7.8339, 18.5708

Complementary

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



12.8720, 7.8339, 17.6633



9.4187, 15.8457, 6.4336

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.



3.4222, 7.8339, 8.8509



12.8720, 7.8339, 17.6633



5.1014, 7.8339, 1.1446

Square

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



12.8720, 7.8339, 17.6633



10.1790, 7.8339, 1.0635



3.8098, 7.8339, 3.2557



5.2519, 7.8339, 28.8127

Rectangle

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



12.8720, 7.8339, 17.6633



13.2831, 7.8339, 4.2563



3.8098, 7.8339, 3.2557



3.6320, 7.8339, 14.9927

Sweetspot

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



12.8723, 7.8343, 17.6635



29.7347, 26.8872, 36.7071



6.4430, 4.4557, 20.2592



6.6404, 5.8832, 8.2659



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970

Same Dimension

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



12.8723, 7.8343, 17.6635



21.4346, 11.6728, 29.6680



11.0800, 7.1174, 8.2257



4.4775, 4.4041, 5.3188



11.7958, 5.7380, 16.0460



0.0000, 0.0000, 0.0000

Inverse Universe

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



12.8723, 7.8343, 17.6635



21.4346, 11.6728, 29.6680



10.7366, 16.3729, 13.3737



4.4775, 4.4041, 5.3188



11.7958, 5.7380, 16.0460



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.8720, 7.8339, 17.6633 looks on a white background.

Color Contrast Check

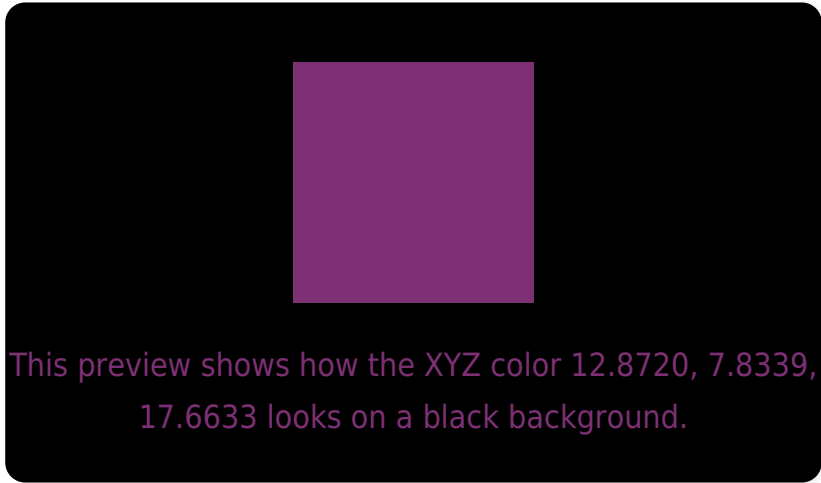
Large Text (above 18pt) WCAG AA ✓ Pass

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

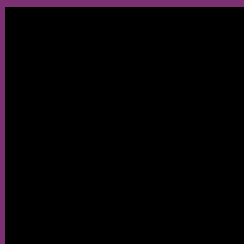
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8720, 7.8339, 17.6633

Background



This preview shows how black text looks on a background with the XYZ color 12.8720, 7.8339, 17.6633.



This preview shows how white text looks on a background with the XYZ color 12.8720, 7.8339,

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

12.8720, 7.8339, 17.6633

Protanopia

8.9489, 8.0849, 27.0755

Deuteranopia

8.1749, 8.0270, 16.4477



Tritanopia

10.5912, 7.9035, 6.1216

Trichromacy



Original Color

12.8720, 7.8339, 17.6633

Protanomaly

9.3708, 7.3133, 23.4720

Deuteranomaly

9.3208, 7.5228, 16.8804

Tritanomaly

11.2712, 7.7931, 9.5045

Monochromacy



Original Color

12.8720, 7.8339, 17.6633

Achromatopsia

7.4317, 7.8187, 8.5146

Achromatomaly

8.8668, 7.4114, 11.3191

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8720, 7.8339, 17.6633 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(126, 48, 117)` looks like.

```
.text, #text, p{  
    color:rgb(126, 48, 117)  
}
```

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(126, 48, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(126, 48, 117) }
```

Border

The CSS property to change the border of an element to XYZ 12.8720, 7.8339, 17.6633 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(126, 48, 117) }
```


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

```
.border{ border-color:rgb(126, 48, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(126, 48, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(126, 48, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(126, 48, 117);  
box-shadow:4px 4px 4px 4px rgb(126, 48,  
117) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8720, 7.8339, 17.6633 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(126, 48, 117) }
```

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

```
.background{ background-color: rgb(126, 48,  
117) }
```

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