

Converting Colors

XYZ(12.7983, 6.8095, 37.4771)

Have a look what the booklet for
XYZ(12.7983, 6.8095, 37.4771)
contains.

XYZ(12.7980, 6.8101, 37.6857)	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(12.7980, 6.8101,
37.6857)**

Conversions

Conversions Part 1

Format	Color
Hex	6226A8
RGB	98, 38, 168
RGB Percent	38%, 15%, 66%
CMY	0.6157, 0.8510, 0.3412
CMYK	0.42, 0.77, 0.00, 0.34
HSL	268°, 63%, 40%
HSV	268°, 77%, 66%
XYZ	12.7980, 6.8101, 37.6857
YIQ	70.7600, -5.9700, 53.1500

Conversions

Conversions Part 2

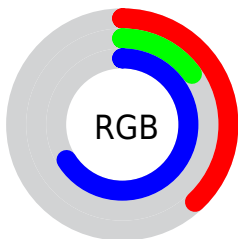
Format	Color
R_{YB}	98, 38, 168
Decimal	6432424
CIE _{Lab}	31.37, 52.09, -58.75
CIE _{LCh}	31, 78.516, 311.562
Yxy	6.8101, 0.2234, 0.1189
Android (android.graphics.Color)	4284622504 (0xFF6226A8)
YUV	70.7600, 47.9393, 23.8895
Hunter-Lab	26.0962, 41.8711, -67.3539

Details

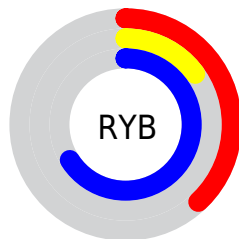
The XYZ color **12.7980, 6.8101, 37.6857** is a dark color, and the websafe version is hex **660099**. A complement of this color would be **20.5367, 31.3334, 6.7994**, and the grayscale version is **5.8717, 6.1775, 6.7273**.

A 20% lighter version of the original color is **30.6283, 19.6627, 72.7020**, and **3.9312, 1.6691, 16.3346** is the 20% darker color. If you saturate the color by 10%, you get **11.4555, 5.4926, 37.5023**, and if you desaturate by 10%, it is **14.4939, 8.6695, 37.9554**.

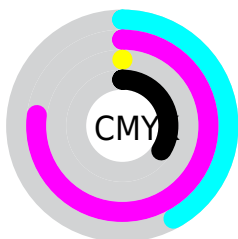
Distribution



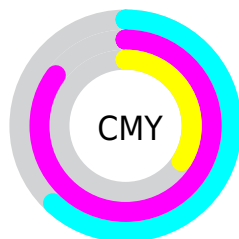
- Red (38%)
- Green (15%)
- Blue (66%)



- Red (38%)
- Yellow (15%)
- Blue (66%)



- Cyan (42%)
- Magenta (77%)
- Yellow (0%)
- Black (34%)



- Cyan (62%)
- Magenta (85%)
- Yellow (34%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7980, 6.8101, 37.6857 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 12.7980, 6.8101, 37.6857 by changing the saturation by 10% instead.

12.7980, 6.8101,
37.6857

12.7980, 6.8101,
37.6857

203.2829,
166.0763, 351.5275

7.3656, 3.3436,
25.4389

30.5448, 19.5902,
72.8242

3.7402, 1.3137,
16.1824

43.5900, 29.6725,
96.5530

1.5562, 0.1517,
9.4975

59.9034, 42.7290,
124.9462

0.3636, 0.0000,
4.9659

79.8506, 59.1439,
158.4224

0.0000, 0.0000,
2.1689

103.7967, 79.3017,
197.4001

0.0000, 0.0000,
0.6563

132.1073,

0.0000, 0.0000,

103.5868, 242.2978

0.0000

165.1475,
132.3835, 293.5341

■ 12.7980, 6.8101,
37.6857

■ 12.7980, 6.8101,
37.6857

■ 11.4555, 5.4926,
37.5023

■ 14.4939, 8.6695,
37.9554

■ 10.4164, 4.6243,
37.3895

■ 16.5746, 11.1300,
38.3206

■ 10.1723, 4.4275,
37.3644

■ 19.0687, 14.2433,
38.7901

■ 22.0013, 18.0551,
39.3713

■ 25.3956, 22.6070,
40.0710

■ 29.2729, 27.9373,
40.8955

■ 33.6530, 34.0814,
41.8506

■ 38.5547, 41.0727,
42.9417

■ 43.9956, 48.9425,
44.1739

Harmonies

Analogous

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



8.0878, 6.8101, 54.2938



12.7980, 6.8101, 37.6857



16.4550, 6.8101, 16.4435

Triad

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



12.7980, 6.8101, 37.6857



9.1333, 6.8101, 0.0000



1.5672, 6.8101, 12.5803

Complementary

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



12.7980, 6.8101, 37.6857



20.5367, 31.3334, 6.7994

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.



1.6589, 6.8101, 2.4995



12.7980, 6.8101, 37.6857



5.0885, 6.8101, 0.0000

Square

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



12.7980, 6.8101, 37.6857



13.8217, 6.8101, 0.1396



2.6752, 6.8101, 0.0000



2.3390, 6.8101, 32.5751

Rectangle

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



12.7980, 6.8101, 37.6857



17.1740, 6.8101, 6.8472



2.6752, 6.8101, 0.0000



1.5101, 6.8101, 8.0135

Sweetspot

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



12.7984, 6.8103, 37.6859



48.7619, 44.6795, 73.2791



13.3895, 14.2837, 39.0972



10.1139, 9.0360, 15.8632



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656

Same Dimension

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



12.7984, 6.8103, 37.6859



19.3680, 8.7640, 67.8959



22.5600, 11.8426, 38.1427



7.4485, 7.4638, 9.4664



7.7397, 3.3734, 28.2187



0.2477, 0.1127, 0.6893

Inverse Universe

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



19.5484, 10.7939, 15.2401



33.1919, 16.9432, 20.9788



15.4129, 28.6919, 6.5596



7.6936, 7.6073, 8.7039



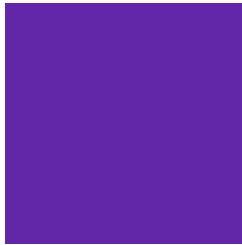
13.6292, 6.8604, 8.1250



0.3570, 0.1771, 0.3315

Previews

White Background



This preview shows how the XYZ color 12.7980, 6.8101, 37.6857 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 12.7980, 6.8101, 37.6857 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

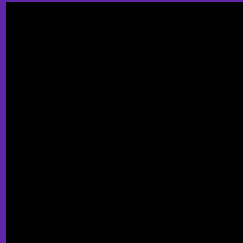
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7980, 6.8101, 37.6857

Background



This preview shows how black text looks on a background with the XYZ color 12.7980, 6.8101, 37.6857.



This preview shows how white text looks on a background with the XYZ color 12.7980, 6.8101,

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

12.7980, 6.8101, 37.6857

Protanopia

7.9849, 6.9017, 30.6171

Deuteranopia

6.6812, 6.8076, 22.4346



Tritanopia

6.8996, 6.9348, 8.1826

Trichromacy



Original Color

12.7980, 6.8101, 37.6857

Protanomaly

8.5150, 6.0754, 33.0716

Deuteranomaly

7.4842, 5.8339, 27.1172

Tritanomaly

8.2314, 6.3107, 15.8232

Monochromacy



Original Color

12.7980, 6.8101, 37.6857

Achromatopsia

5.9891, 6.3010, 6.8618

Achromatomaly

7.5588, 5.9179, 14.3795

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7980, 6.8101, 37.6857 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(98, 38, 168) looks like.

```
.text, #text, p{  
    color:rgb(98, 38, 168)  
}
```

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(98, 38, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 38, 168) }
```

Border

The CSS property to change the border of an element to XYZ 12.7980, 6.8101, 37.6857 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(98, 38, 168) }
```


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

```
.border{ border-color:rgb(98, 38, 168) }
```

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

Here you see how a box with a 4 pixel rgb(98, 38, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 38, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 38, 168);  
box-shadow:4px 4px 4px 4px rgb(98, 38,  
168) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7980, 6.8101, 37.6857 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 38, 168) }
```

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

```
.background{ background-color: rgb(98, 38,  
168) }
```

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