

Converting Colors

XYZ(12.7721, 6.4393, 16.1431)

Have a look what the booklet for
XYZ(12.7721, 6.4393, 16.1431)
contains.

XYZ(12.7850, 6.4417, 16.1923)	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(12.7850, 6.4417,
16.1923)**

Conversions

Conversions Part 1

Format	Color
Hex	850C71
RGB	133, 12, 113
RGB Percent	52%, 5%, 44%
CMY	0.4784, 0.9529, 0.5569
CMYK	0.00, 0.91, 0.15, 0.48
HSL	310°, 83%, 28%
HSV	310°, 91%, 52%
XYZ	12.7850, 6.4417, 16.1923
YIQ	59.6930, 39.6950, 57.0630

Conversions

Conversions Part 2

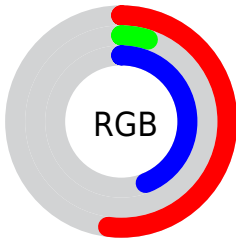
Format	Color
R_{YB}	133, 12, 113
Decimal	8719473
CIE _{Lab}	30.50, 55.75, -25.79
CIE _{LCh}	31, 61.429, 335.178
Yxy	6.4417, 0.3610, 0.1819
Android (android.graphics.Color)	4286909553 (0xFF850C71)
YUV	59.6930, 26.2804, 64.2902
Hunter-Lab	25.3805, 45.5005, -20.0596

Details

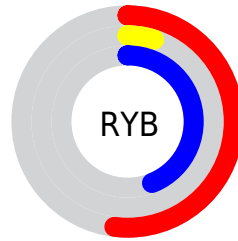
The XYZ color **12.7850, 6.4417, 16.1923** is a dark color, and the websafe version is hex **660066**. A complement of this color would be **8.8002, 16.9579, 4.1765**, and the grayscale version is **4.2140, 4.4334, 4.8280**.

A 20% lighter version of the original color is **30.4317, 18.8432, 37.6305**, and **4.1786, 2.0439, 5.1753** is the 20% darker color. If you saturate the color by 10%, you get **12.5431, 6.1347, 15.5663**, and if you desaturate by 10%, it is **13.1332, 6.9375, 16.9266**.

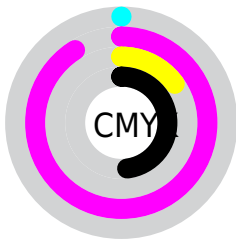
Distribution



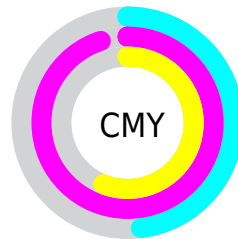
- Red (52%)
- Green (5%)
- Blue (44%)



- Red (52%)
- Yellow (5%)
- Blue (44%)



- Cyan (0%)
- Magenta (91%)
- Yellow (15%)
- Black (48%)




- Cyan (48%)
- Magenta (95%)
- Yellow (56%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7850, 6.4417, 16.1923 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 12.7850, 6.4417, 16.1923 by changing the saturation by 10% instead.


 12.7850, 6.4417,
16.1923


 12.7850, 6.4417,
16.1923


203.2007,
162.9406, 242.3581

 7.3566, 3.1155,
9.5045


 30.5216, 18.8409,
37.7032


 3.7344, 1.1923,
4.9704

 43.5605, 28.6827,
53.3633

 1.5530, 0.0554,
2.1715

 59.8671, 41.4651,
72.8513

 0.3615, 0.0000,
0.6578


 79.8065, 57.5726,
96.5857


 0.0000, 0.0000,
0.0000

 103.7442, 77.3894,
124.9850

 132.0456,


101.3001, 158.4679


 165.0760,
129.6891, 197.4527


 12.7850, 6.4417,
16.1923


 12.7850, 6.4417,
16.1923

 12.5431, 6.1347,
15.5663

 13.1332, 6.9375,
16.9266

 13.6200, 7.7058,
17.7219

 14.2626, 8.7807,
18.5841

 15.0754, 10.1913,
19.5182

 16.0713, 11.9630,
20.5285

■ 17.2619, 14.1192,
21.6190

■ 18.6577, 16.6808,
22.7934

■ 20.2686, 19.6676,
24.0549

■ 22.1039, 23.0980,
25.4067

Harmonies

Analogous

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



9.9722, 6.4417, 30.1671



12.7850, 6.4417, 16.1923



13.6144, 6.4417, 5.6571

Triad

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



12.7850, 6.4417, 16.1923



5.6285, 6.4417, 0.0000



2.5778, 6.4417, 21.0056

Complementary

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



12.7850, 6.4417, 16.1923



8.8002, 16.9579, 4.1765

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.



2.0534, 6.4417, 8.5719



12.7850, 6.4417, 16.1923



3.4184, 6.4417, 0.1662

Square

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



12.7850, 6.4417, 16.1923



8.8029, 6.4417, 0.0000



2.3028, 6.4417, 2.1894



4.0504, 6.4417, 34.1813

Rectangle

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



12.7850, 6.4417, 16.1923



12.7608, 6.4417, 2.1478



2.3028, 6.4417, 2.1894



2.3105, 6.4417, 16.3515

Sweetspot

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



12.7852, 6.4420, 16.1924



31.7095, 26.7416, 39.4038



4.9053, 2.2350, 22.3635



6.9916, 5.7462, 8.7460



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.7852, 6.4420, 16.1924



22.4127, 10.9661, 27.6169



10.4788, 5.5195, 4.0471



4.8257, 4.7500, 5.6946



11.9498, 5.8443, 14.8401



0.0436, 0.0211, 0.0629

Inverse Universe

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



12.7852, 6.4420, 16.1924



22.4127, 10.9661, 27.6169



10.4128, 17.6029, 12.6682



4.8257, 4.7500, 5.6946



11.9498, 5.8443, 14.8401



0.0436, 0.0211, 0.0629

Previews

White Background



This preview shows how the XYZ color 12.7850, 6.4417, 16.1923 looks on a white background.

Color Contrast Check

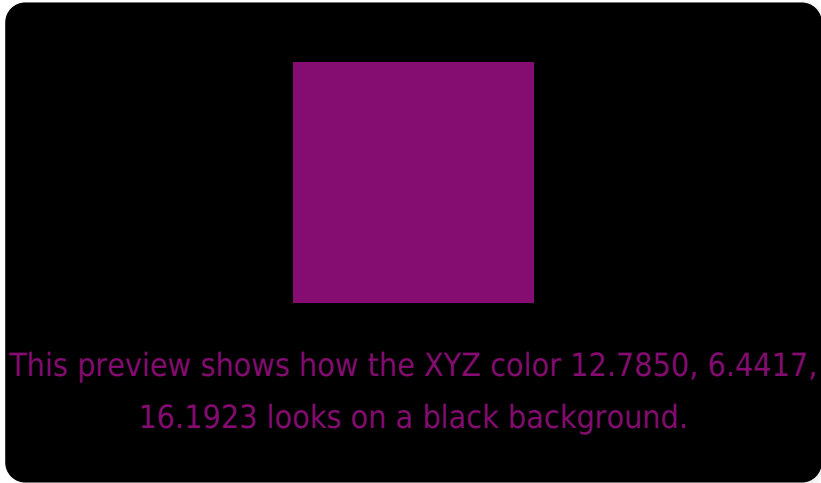
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.7850, 6.4417, 16.1923

Background



This preview shows how black text looks on a background with the XYZ color 12.7850, 6.4417, 16.1923.



This preview shows how white text looks on a background with the XYZ color 12.7850, 6.4417,

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

12.7850, 6.4417, 16.1923

Protanopia

7.9207, 6.7735, 30.5957

Deuteranopia

6.9707, 6.8298, 14.5866



Tritanopia

10.2243, 6.6022, 3.5318

Trichromacy



Original Color

12.7850, 6.4417, 16.1923

Protanomaly

6.9470, 4.7446, 24.5944

Deuteranomaly

7.9686, 5.5465, 15.1186

Tritanomaly

10.7668, 6.2227, 6.7645

Monochromacy



Original Color

12.7850, 6.4417, 16.1923

Achromatopsia

4.2949, 4.5186, 4.9208

Achromatomaly

6.2056, 4.3185, 7.9036

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7850, 6.4417, 16.1923 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(133, 12, 113)` looks like.

```
.text, #text, p{  
    color:rgb(133, 12, 113)  
}
```

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(133, 12, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 12, 113) }
```

Border

The CSS property to change the border of an element to XYZ 12.7850, 6.4417, 16.1923 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(133, 12, 113) }
```


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

```
.border{ border-color:rgb(133, 12, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 12, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 12, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 12, 113);  
box-shadow:4px 4px 4px 4px rgb(133, 12,  
113) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7850, 6.4417, 16.1923 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 12, 113) }
```

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

```
.background{ background-color: rgb(133, 12,  
113) }
```

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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