

Converting Colors

XYZ(12.9108, 11.1480, 22.1977)

Have a look what the booklet for
XYZ(12.9108, 11.1480, 22.1977)
contains.

XYZ(12.8838, 11.1241, 22.2370)	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(12.8838, 11.1241,
22.2370)**

Conversions

Conversions Part 1

Format	Color
Hex	675681
RGB	103, 86, 129
RGB Percent	40%, 34%, 51%
CMY	0.5961, 0.6627, 0.4941
CMYK	0.20, 0.33, 0.00, 0.49
HSL	264°, 20%, 42%
HSV	264°, 33%, 51%
XYZ	12.8838, 11.1241, 22.2370
YIQ	95.9850, -3.6710, 16.9770

Conversions

Conversions Part 2

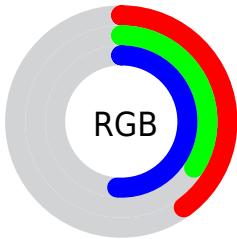
Format	Color
R_{YB}	103, 86, 129
Decimal	6772353
CIE _{Lab}	39.79, 16.38, -21.59
CIE _{LCh}	40, 27.100, 307.179
Yxy	11.1241, 0.2786, 0.2405
Android (android.graphics.Color)	4284962433 (0xFF675681)
YUV	95.9850, 16.2764, 6.1522
Hunter-Lab	33.3528, 10.5850, -16.1829

Details

The XYZ color **12.8838, 11.1241, 22.2370** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **16.2122, 19.8173, 11.7751**, and the grayscale version is **11.0773, 11.6542, 12.6914**.

A 20% lighter version of the original color is **30.7652, 27.9543, 48.0302**, and **3.8165, 2.9773, 7.9629** is the 20% darker color. If you saturate the color by 10%, you get **11.0921, 8.8072, 21.8844**, and if you desaturate by 10%, it is **14.9457, 13.8568, 22.6560**.

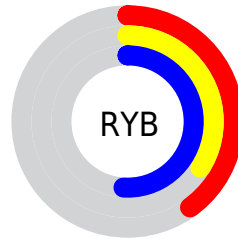
Distribution



Red (40%)

Green (34%)

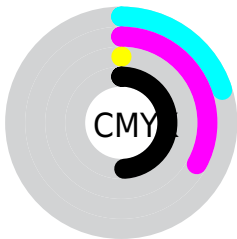
Blue (51%)



Red (40%)

Yellow (34%)

Blue (51%)

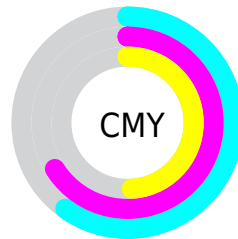


Cyan (20%)

Magenta (33%)

Yellow (0%)

Black (49%)



Cyan (60%)

Magenta (66%)

Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.8838, 11.1241, 22.2370 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 12.8838, 11.1241, 22.2370 by changing the saturation by 10% instead.

■ 12.8838, 11.1241,
22.2370

■ 12.8838, 11.1241,
22.2370

203.8243,
198.5170, 276.7752

■ 7.4250, 6.1504,
13.8312

■ 30.6980, 27.8894,
48.0446

■ 3.7780, 2.9367,
7.8659

■ 43.7841, 40.4498,
66.2834

■ 1.5773, 1.0988,
3.9227

■ 60.1433, 56.3078,
88.6370

■ 0.3776, 0.0000,
1.5831

■ 80.1411, 75.8480,
115.5239

■ 0.0000, 0.0000,
0.2787

■ 104.1427, 99.4545,
147.3627

■ 0.0000, 0.0000,
0.0000

132.5135,

127.5120, 184.5718

165.6189,
160.4047, 227.5698

■ 12.8838, 11.1241,
22.2370

■ 12.8838, 11.1241,
22.2370

■ 11.0921, 8.8072,
21.8844

■ 14.9457, 13.8568,
22.6560

■ 9.5571, 6.8836,
21.5940

■ 17.2880, 17.0235,
23.1438

■ 8.2659, 5.3305,
21.3623

■ 19.9219, 20.6431,
23.7036

■ 7.2039, 4.1223,
21.1851

■ 22.8576, 24.7329,
24.3383

■ 6.3545, 3.2300,
21.0576

■ 26.1047, 29.3092,
25.0504

■ 5.6981, 2.6183,
20.9741

■ 29.6723, 34.3876,
25.8426

■ 5.3278, 2.2889,
20.9301

■ 33.5693, 39.9830,
26.7173

■ 37.8041, 46.1096,
27.6766

■ 42.3850, 52.7812,
28.7229

Harmonies

Analogous

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



11.0262, 11.1241, 25.3734



12.8838, 11.1241, 22.2370



14.2221, 11.1241, 16.5325

Triad

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



12.8838, 11.1241, 22.2370



12.0210, 11.1241, 4.9144



7.4083, 11.1241, 13.4373

Complementary

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



12.8838, 11.1241, 22.2370



16.2122, 19.8173, 11.7751

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.



7.6087, 11.1241, 8.5597



12.8838, 11.1241, 22.2370



10.1326, 11.1241, 4.5297

Square

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



12.8838, 11.1241, 22.2370



13.6846, 11.1241, 6.9191



8.5567, 11.1241, 5.6495



7.9731, 11.1241, 19.4121

Rectangle

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



12.8838, 11.1241, 22.2370



14.5604, 11.1241, 12.6230



8.5567, 11.1241, 5.6495



7.3896, 11.1241, 11.6154

Sweetspot

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



12.8842, 11.1246, 22.2373



32.3632, 32.4048, 41.7415



13.6519, 15.2664, 22.9963



7.2039, 7.1685, 9.4223



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



12.8842, 11.1246, 22.2373



20.5890, 16.6998, 39.3307



15.6003, 12.5248, 22.3644



4.2572, 4.2882, 5.4166



5.1991, 2.2339, 20.4071



0.0000, 0.0000, 0.0000

Inverse Universe

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



15.3059, 12.4929, 16.9340



25.7229, 19.6048, 27.8953



13.8463, 18.5977, 11.6644



4.4284, 4.3845, 5.0603



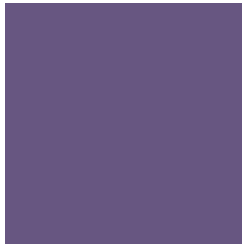
10.1698, 5.0876, 7.4840



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.8838, 11.1241, 22.2370 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 12.8838, 11.1241, 22.2370 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

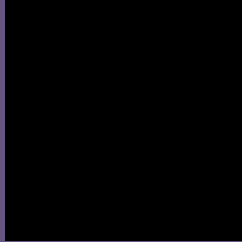
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.8838, 11.1241, 22.2370

Background



This preview shows how black text looks on a background with the XYZ color 12.8838, 11.1241, 22.2370.



This preview shows how white text looks on a background with the XYZ color 12.8838, 11.1241,

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

12.8838, 11.1241, 22.2370

Protanopia

11.5236, 11.1249, 24.0942

Deuteranopia

11.4668, 11.2720, 21.9934



Tritanopia

11.1163, 11.1518, 13.3710

Trichromacy



Original Color

12.8838, 11.1241, 22.2370

Protanomaly

11.9408, 11.1021, 23.3434

Deuteranomaly

11.8668, 11.0950, 21.9382

Tritanomaly

11.7262, 11.1474, 16.2855

Monochromacy



Original Color

12.8838, 11.1241, 22.2370

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

11.6795, 11.3897, 15.7702

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8838, 11.1241, 22.2370 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(103, 86, 129)` looks like.

```
.text, #text, p{  
    color:rgb(103, 86, 129)  
}
```

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(103, 86, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 86, 129) }
```

Border

The CSS property to change the border of an element to XYZ 12.8838, 11.1241, 22.2370 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(103, 86, 129) }
```


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

```
.border{ border-color:rgb(103, 86, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 86, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 86, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 86, 129);  
box-shadow:4px 4px 4px 4px rgb(103, 86,  
129) }
```

Background

The CSS property to change the background color of an element to XYZ 12.8838, 11.1241, 22.2370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 86, 129) }
```

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

```
.background{ background-color: rgb(103, 86,  
129) }
```

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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