

Converting Colors

XYZ(12.2069, 12.6923, 22.4251)

Have a look what the booklet for
XYZ(12.2069, 12.6923, 22.4251)
contains.

XYZ(12.2723, 12.7772, 22.5883)	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(12.2723, 12.7772,
22.5883)**

Conversions

Conversions Part 1

Format	Color
Hex	546581
RGB	84, 101, 129
RGB Percent	33%, 40%, 51%
CMY	0.6706, 0.6039, 0.4941
CMYK	0.35, 0.22, 0.00, 0.49
HSL	217°, 21%, 42%
HSV	217°, 35%, 51%
XYZ	12.2723, 12.7772, 22.5883
YIQ	99.1090, -19.1200, 5.1040

Conversions

Conversions Part 2

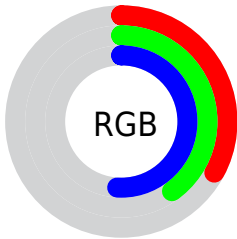
Format	Color
R_{YB}	84, 96, 129
Decimal	5531009
CIE Lab	42.43, 0.88, -17.66
CIE LCh	42, 17.684, 272.857
Yxy	12.7772, 0.2576, 0.2682
Android (android.graphics.Color)	4283721089 (0xFF546581)
YUV	99.1090, 14.7363, -13.2506
Hunter-Lab	35.7452, -1.2702, -12.4452

Details

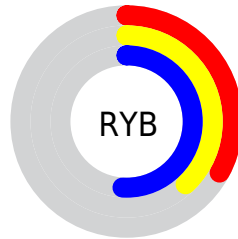
The XYZ color **12.2723, 12.7772, 22.5883** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **16.4479, 16.8957, 10.7822**, and the grayscale version is **11.8550, 12.4724, 13.5824**.

A 20% lighter version of the original color is **29.6634, 30.9848, 48.6732**, and **3.4947, 3.5926, 8.0987** is the 20% darker color. If you saturate the color by 10%, you get **10.4807, 10.7529, 22.2922**, and if you desaturate by 10%, it is **14.3535, 15.0644, 22.9203**.

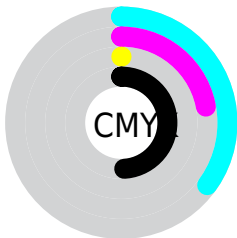
Distribution



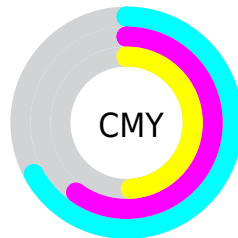
- Red (33%)
- Green (40%)
- Blue (51%)



- Red (33%)
- Yellow (38%)
- Blue (51%)



- Cyan (35%)
- Magenta (22%)
- Yellow (0%)
- Black (49%)



- Cyan (67%)
- Magenta (60%)
- Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2723, 12.7772, 22.5883 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 12.2723, 12.7772, 22.5883 by changing the saturation by 10% instead.

■ 12.2723, 12.7772,
22.5883

■ 12.2723, 12.7772,
22.5883

199.9331,
209.4848, 278.6564

■ 7.0029, 7.2753,
14.0874

■ 29.6027, 30.9029,
48.6310

■ 3.5103, 3.6349,
8.0420

■ 42.3943, 44.2956,
67.0099

■ 1.4290, 1.4715,
4.0337

■ 58.4242, 61.0872,
89.5185

■ 0.2767, 0.2685,
1.6438

■ 78.0575, 81.6623,
116.5754

■ 0.0000, 0.0000,
0.3218

■ 101.6597,
106.4052, 148.5991

■ 0.0000, 0.0000,
0.0000

129.5961,

135.7003, 186.0081

162.2321,
169.9321, 229.2210

■ 12.2723, 12.7772,
22.5883

■ 12.2723, 12.7772,
22.5883

■ 10.4807, 10.7529,
22.2922

■ 14.3535, 15.0644,
22.9203

■ 8.9637, 8.9796,
22.0299

■ 16.7360, 17.6228,
23.2885

■ 7.7065, 7.4467,
21.8003

■ 19.4323, 20.4619,
23.6945

■ 6.6925, 6.1420,
21.6019

■ 22.4537, 23.5907,
24.1391

■ 5.9027, 5.0522,
21.4332

■ 25.8110, 27.0173,
24.6236

■ 5.3111, 4.1595,
21.2920

■ 29.5146, 30.7498,
25.1488

■ 5.0498, 3.7596,
21.2286

■ 33.5742, 34.7959,
25.7158

■ 37.9993, 39.1629,
26.3255

■ 42.7990, 43.8579,
26.9788

Harmonies

Analogous

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



11.0141, 12.7772, 21.5040



12.2723, 12.7772, 22.5883



13.5859, 12.7772, 21.0195

Triad

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



12.2723, 12.7772, 22.5883



14.4228, 12.7772, 10.3036



10.0070, 12.7772, 10.8300

Complementary

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



12.2723, 12.7772, 22.5883



16.4479, 16.8957, 10.7822

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.



10.8085, 12.7772, 8.6203



12.2723, 12.7772, 22.5883



13.3493, 12.7772, 8.3576

Square

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



12.2723, 12.7772, 22.5883



14.8830, 12.7772, 13.5502



12.0173, 12.7772, 7.8023



9.7641, 12.7772, 14.2806

Rectangle

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



12.2723, 12.7772, 22.5883



14.3000, 12.7772, 18.8219



12.0173, 12.7772, 7.8023



10.2170, 12.7772, 9.9404

Sweetspot

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



12.2727, 12.7777, 22.5886



32.1434, 33.8579, 42.0336



14.4175, 18.7499, 18.1159



7.1491, 7.5303, 9.4950



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.



12.2727, 12.7777, 22.5886



19.3390, 19.9090, 40.0160



11.2770, 10.0623, 22.1169



4.2317, 4.4573, 5.4506



4.9273, 3.6731, 20.6992



0.0000, 0.0000, 0.0000

Inverse Universe

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



14.5729, 11.9478, 13.8506



24.2023, 18.4844, 21.4669



17.7269, 20.6073, 11.4312



4.3898, 4.3691, 4.8570



9.3641, 4.7653, 3.2409



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.2723, 12.7772, 22.5883 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 12.2723, 12.7772, 22.5883 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

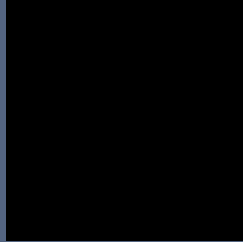
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

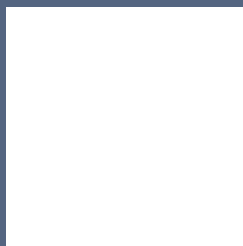
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.2723, 12.7772, 22.5883

Background



This preview shows how black text looks on a background with the XYZ color 12.2723, 12.7772, 22.5883.

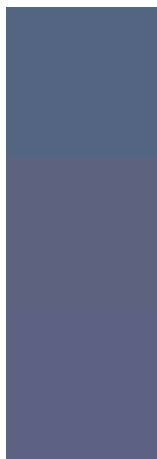


This preview shows how white text looks on a background with the XYZ color 12.2723, 12.7772,

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

12.2723, 12.7772, 22.5883

Protanopia

12.8068, 12.7831, 21.8711

Deuteranopia

13.0130, 12.7268, 22.8897



Tritanopia

11.1832, 12.7760, 17.2058

Trichromacy



Original Color

12.2723, 12.7772, 22.5883

Protanomaly

12.6699, 12.8465, 22.2339

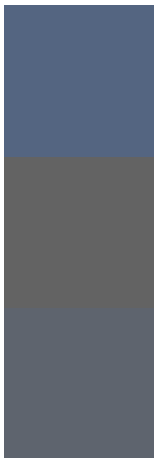
Deuteranomaly

12.7076, 12.7090, 22.9024

Tritanomaly

11.5136, 12.7578, 18.9952

Monochromacy



Original Color

12.2723, 12.7772, 22.5883

Achromatopsia

11.8596, 12.4772, 13.5877

Achromatomaly

11.9877, 12.6198, 16.5559

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2723, 12.7772, 22.5883 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(84, 101, 129) looks like.

```
.text, #text, p{  
    color:rgb(84, 101, 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(84, 101, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(84, 101, 129) }
```

Border

The CSS property to change the border of an element to XYZ 12.2723, 12.7772, 22.5883 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(84, 101, 129) }
```


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

```
.border{ border-color:rgb(84, 101, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(84, 101, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(84, 101, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(84, 101, 129);  
box-shadow:4px 4px 4px 4px rgb(84, 101,  
129) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2723, 12.7772, 22.5883 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(84, 101, 129) }
```

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

```
.background{ background-color: rgb(84, 101,  
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](#).

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