

Converting Colors

XYZ(12.9777, 13.8197, 25.6504)

Have a look what the booklet for
XYZ(12.9777, 13.8197, 25.6504)
contains.

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Color

**XYZ(12.9777, 13.8197,
25.6504)**

Conversions

Conversions Part 1

Format	Color
Hex	506A89
RGB	80, 106, 137
RGB Percent	31%, 42%, 54%
CMY	0.6863, 0.5843, 0.4627
CMYK	0.42, 0.23, 0.00, 0.46
HSL	213°, 26%, 43%
HSV	213°, 42%, 54%
XYZ	12.9777, 13.8197, 25.6504
YIQ	101.7600, -25.4470, 4.1290

Conversions

Conversions Part 2

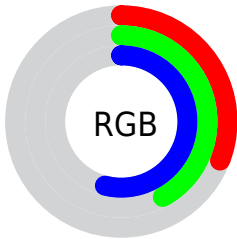
Format	Color
R_{YB}	80, 98, 137
Decimal	5270153
CIE _{Lab}	43.97, -1.04, -20.12
CIE _{LCh}	44, 20.146, 267.048
Yxy	13.8197, 0.2474, 0.2635
Android (android.graphics.Color)	4283460233 (0xFF506A89)
YUV	101.7600, 17.3733, -19.0835
Hunter-Lab	37.1749, -2.7419, -14.8873

Details

The XYZ color **12.9777, 13.8197, 25.6504** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **17.4494, 17.2669, 10.0032**, and the grayscale version is **12.5280, 13.1805, 14.3535**.

A 20% lighter version of the original color is **30.7113, 32.6569, 53.4000**, and **3.8197, 4.0921, 9.6054** is the 20% darker color. If you saturate the color by 10%, you get **11.2021, 11.8138, 25.3571**, and if you desaturate by 10%, it is **15.0569, 16.0817, 25.9777**.

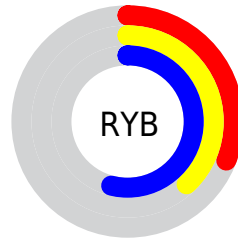
Distribution



Red (31%)

Green (42%)

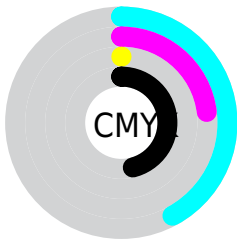
Blue (54%)



Red (31%)

Yellow (38%)

Blue (54%)

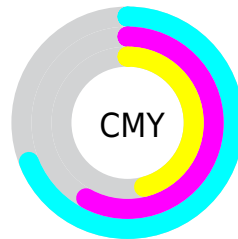


Cyan (42%)

Magenta (23%)

Yellow (0%)

Black (46%)



Cyan (69%)

Magenta (58%)

Yellow (46%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9777, 13.8197, 25.6504 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 12.9777, 13.8197, 25.6504 by changing the saturation by 10% instead.

■ 12.9777, 13.8197,
25.6504

■ 12.9777, 13.8197,
25.6504

204.4152,
216.1063, 294.6123

■ 7.4901, 7.9954,
16.3389

■ 30.8654, 32.7688,
53.6876

■ 3.8195, 4.0920,
9.6073

■ 43.9961, 46.6623,
73.2503

■ 1.6005, 1.7252,
5.0372

■ 60.4053, 64.0144,
97.0671

■ 0.3928, 0.4399,
2.2100

■ 80.4583, 85.2093,
125.5566

■ 0.0000, 0.0000,
0.6801

■ 104.5204,
110.6316, 159.1374

■ 0.0000, 0.0000,
0.0000

132.9570,

140.6656, 198.2279

166.1335,
175.6957, 243.2467

■ 12.9777, 13.8197,
25.6504

■ 12.9777, 13.8197,
25.6504

■ 11.2021, 11.8138,
25.3571

■ 15.0569, 16.0817,
25.9777

■ 9.7125, 10.0516,
25.0954

■ 17.4531, 18.6084,
26.3391

■ 8.4916, 8.5219,
24.8645

■ 20.1806, 21.4096,
26.7360

■ 7.5194, 7.2117,
24.6628

■ 23.2523, 24.4944,
27.1695

■ 6.7728, 6.1060,
24.4888

■ 26.6804, 27.8712,
27.6406

■ 6.2649, 5.3051,
24.3610

■ 30.4767, 31.5481,
28.1503

■ 34.6520, 35.5328,
28.6993

■ 39.2170, 39.8330,
29.2887

■ 44.1819, 44.4556,
29.9193

Harmonies

Analogous

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



11.5346, 13.8197, 23.6997



12.9777, 13.8197, 25.6504



14.5818, 13.8197, 24.3181

Triad

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



12.9777, 13.8197, 25.6504



16.0645, 13.8197, 11.3918



10.7231, 13.8197, 10.7525

Complementary

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



12.9777, 13.8197, 25.6504



17.4494, 17.2669, 10.0032

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.



11.7876, 13.8197, 8.4949



12.9777, 13.8197, 25.6504



14.8774, 13.8197, 8.8080

Square

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



12.9777, 13.8197, 25.6504



16.4470, 13.8197, 15.5048



13.2940, 13.8197, 7.8621



10.3008, 13.8197, 14.5989

Rectangle

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



12.9777, 13.8197, 25.6504



15.5136, 13.8197, 21.8708



13.2940, 13.8197, 7.8621



11.0133, 13.8197, 9.8149

Sweetspot

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



12.9782, 13.8202, 25.6507



35.7978, 37.9933, 47.8299



15.0907, 20.7317, 18.0731



7.9062, 8.3964, 10.7103



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



12.9782, 13.8202, 25.6507



20.2074, 21.3254, 45.4343



10.8555, 9.3334, 24.8966



4.9503, 5.2435, 6.3570



5.8474, 4.9651, 22.6959



0.0532, 0.0617, 0.1556

Inverse Universe

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



15.7871, 12.0968, 15.1390



26.0949, 18.3213, 23.2662



20.4017, 23.6300, 11.0758



5.1215, 5.0841, 5.7285



10.4383, 5.2854, 4.8124



0.0766, 0.0380, 0.0701

Previews

White Background



This preview shows how the XYZ color 12.9777, 13.8197, 25.6504 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 12.9777, 13.8197, 25.6504 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

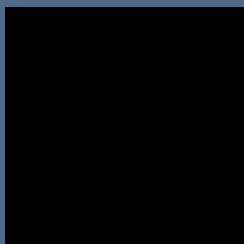
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

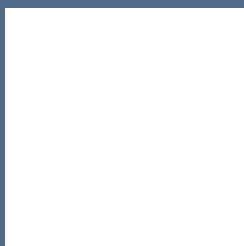
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.9777, 13.8197, 25.6504

Background



This preview shows how black text looks on a background with the XYZ color 12.9777, 13.8197, 25.6504.

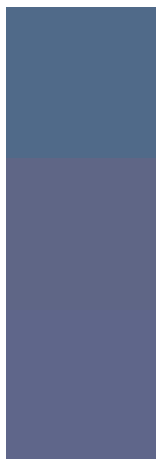


This preview shows how white text looks on a background with the XYZ color 12.9777, 13.8197,

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

12.9777, 13.8197, 25.6504

Protanopia

13.7738, 13.6569, 24.4643

Deuteranopia

14.0581, 13.7706, 25.9618



Tritanopia

11.6403, 13.7411, 19.1783

Trichromacy



Original Color

12.9777, 13.8197, 25.6504

Protanomaly

13.4399, 13.6234, 24.8429

Deuteranomaly

13.6541, 13.7091, 25.9712

Tritanomaly

12.1248, 13.7836, 21.4235

Monochromacy



Original Color

12.9777, 13.8197, 25.6504

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

12.5609, 13.3180, 18.1283

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9777, 13.8197, 25.6504 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(80, 106, 137) looks like.

```
.text, #text, p{  
    color:rgb(80, 106, 137)  
}
```

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(80, 106, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 106, 137) }
```

Border

The CSS property to change the border of an element to XYZ 12.9777, 13.8197, 25.6504 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(80, 106, 137) }
```


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

```
.border{ border-color:rgb(80, 106, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 106, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 106, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 106, 137);  
box-shadow:4px 4px 4px 4px rgb(80, 106,  
137) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9777, 13.8197, 25.6504 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 106, 137) }
```

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

```
.background{ background-color: rgb(80, 106,  
137) }
```

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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