

Converting Colors

XYZ(12.9387, 16.4188, 23.1667)

Have a look what the booklet for
XYZ(12.9387, 16.4188, 23.1667)
contains.

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Color

**XYZ(12.9142, 16.3497,
23.2440)**

Conversions

Conversions Part 1

Format	Color
Hex	407981
RGB	64, 121, 129
RGB Percent	25%, 47%, 51%
CMY	0.7490, 0.5255, 0.4941
CMYK	0.50, 0.06, 0.00, 0.49
HSL	187°, 34%, 38%
HSV	187°, 50%, 51%
XYZ	12.9142, 16.3497, 23.2440
YIQ	104.8690, -36.5400, -9.5960

Conversions

Conversions Part 2

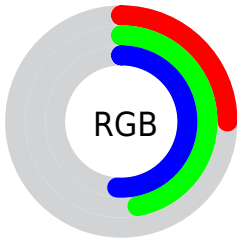
Format	Color
R _{YB}	64, 94, 129
Decimal	4225409
CIE _{Lab}	47.43, -16.36, -10.17
CIE _{LCh}	47, 19.261, 211.867
Y _{xy}	16.3497, 0.2459, 0.3114
Android (android.graphics.Color)	4282415489 (0xFF407981)
YUV	104.8690, 11.8966, -35.8421
Hunter-Lab	40.4348, -13.7509, -5.7786

Details

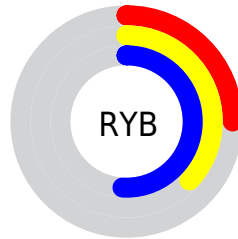
The XYZ color **12.9142, 16.3497, 23.2440** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **12.2964, 9.6725, 6.0699**, and the grayscale version is **13.3682, 14.0644, 15.3161**.

A 20% lighter version of the original color is **30.7232, 37.0464, 49.7874**, and **3.7779, 5.2204, 8.3979** is the 20% darker color. If you saturate the color by 10%, you get **11.9792, 15.5840, 23.1458**, and if you desaturate by 10%, it is **14.0474, 17.2231, 23.3531**.

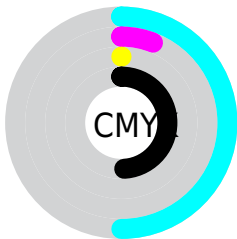
Distribution



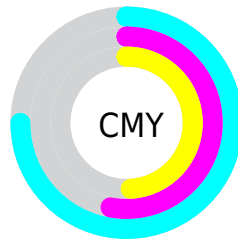
- Red (25%)
- Green (47%)
- Blue (51%)



- Red (25%)
- Yellow (37%)
- Blue (51%)



- Cyan (50%)
- Magenta (6%)
- Yellow (0%)
- Black (49%)



- Cyan (75%)
- Magenta (53%)
- Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9142, 16.3497, 23.2440 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 12.9142, 16.3497, 23.2440 by changing the saturation by 10% instead.

■ 12.9142, 16.3497,
23.2440

■ 12.9142, 16.3497,
23.2440

204.0158,
231.3965, 282.1382

■ 7.4461, 9.7719,
14.5668

■ 30.7522, 37.2042,
49.7219

■ 3.7914, 5.2480,
8.3727

■ 43.8528, 52.2498,
68.3597

■ 1.5848, 2.3935,
4.2432

■ 60.2282, 70.8868,
91.1548

■ 0.3825, 0.8225,
1.7597

■ 80.2439, 93.4996,
118.5257

■ 0.0000, 0.0000,
0.4011

■ 104.2651,
120.4725, 150.8909

■ 0.0000, 0.0000,
0.0000

132.6572,

152.1901, 188.6691

165.7857,
189.0366, 232.2786

■ 12.9142, 16.3497,
23.2440

■ 12.9142, 16.3497,
23.2440

■ 11.9792, 15.5840,
23.1458

■ 14.0474, 17.2231,
23.3531

■ 11.2274, 14.9171,
23.0567

■ 15.3898, 18.2085,
23.4726

■ 10.6439, 14.3416,
22.9763

■ 16.9529, 19.3126,
23.6033

■ 10.2109, 13.8483,
22.9040

■ 18.7474, 20.5408,
23.7458

■ 9.8816, 13.4232,
22.8393

■ 20.7829, 21.8980,
23.9005

■ 23.0688, 23.3891,
24.0678

■ 25.6137, 25.0186,
24.2482

■ 28.4261, 26.7908,
24.4421

■ 31.5137, 28.7098,
24.6497

Harmonies

Analogous

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



12.4831, 16.3497, 18.1103



12.9142, 16.3497, 23.2440



14.0422, 16.3497, 27.4517

Triad

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



12.9142, 16.3497, 23.2440



18.6198, 16.3497, 22.6156



15.4331, 16.3497, 9.9588

Complementary

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



12.9142, 16.3497, 23.2440



12.2964, 9.6725, 6.0699

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.



17.1405, 16.3497, 10.7289



12.9142, 16.3497, 23.2440



19.0590, 16.3497, 17.4973

Square

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



12.9142, 16.3497, 23.2440



17.3391, 16.3497, 27.0447



18.4994, 16.3497, 13.2836



13.8696, 16.3497, 10.9491

Rectangle

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



12.9142, 16.3497, 23.2440



15.0799, 16.3497, 28.8312



18.4994, 16.3497, 13.2836



16.0092, 16.3497, 10.0198

Sweetspot

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



12.9147, 16.3503, 23.2444



31.9231, 35.6629, 42.3936



11.1212, 17.2533, 8.8045



7.0995, 7.9856, 9.5855



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.



12.9147, 16.3503, 23.2444



21.2998, 27.7773, 41.4314



9.6428, 9.8064, 22.1537



4.4027, 4.7994, 5.5076



9.6366, 13.0917, 22.2690



0.0000, 0.0000, 0.0000

Inverse Universe

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



14.3383, 9.7149, 19.2092



24.2286, 14.8063, 32.9770



14.9378, 14.9552, 6.9504



4.4761, 4.4036, 5.3116



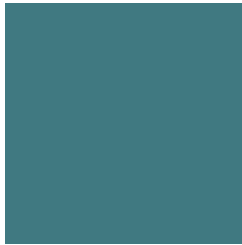
11.7411, 5.7161, 15.7581



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.9142, 16.3497, 23.2440 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 12.9142, 16.3497, 23.2440 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

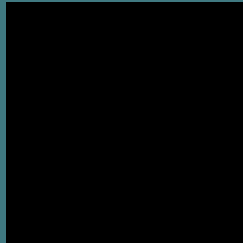
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.9142, 16.3497, 23.2440

Background



This preview shows how black text looks on a background with the XYZ color 12.9142, 16.3497, 23.2440.



This preview shows how white text looks on a background with the XYZ color 12.9142, 16.3497,

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

12.9142, 16.3497, 23.2440

Protanopia

15.8151, 16.1784, 21.0281

Deuteranopia

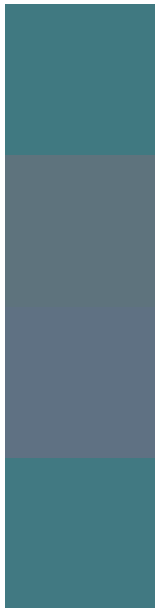
16.4435, 16.1139, 24.0734



Tritanopia

13.1141, 16.4373, 23.9543

Trichromacy



Original Color

12.9142, 16.3497, 23.2440

Protanomaly

14.4485, 16.1218, 21.7523

Deuteranomaly

14.7212, 15.8818, 23.7623

Tritanomaly

13.0466, 16.4103, 23.5990

Monochromacy



Original Color

12.9142, 16.3497, 23.2440

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

12.9382, 14.7574, 18.0861

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9142, 16.3497, 23.2440 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(64, 121, 129)` looks like.

```
.text, #text, p{  
    color:rgb(64, 121, 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(64, 121, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 121, 129) }
```

Border

The CSS property to change the border of an element to XYZ 12.9142, 16.3497, 23.2440 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(64, 121, 129) }
```


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

```
.border{ border-color:rgb(64, 121, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 121, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 121, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 121, 129);  
box-shadow:4px 4px 4px 4px rgb(64, 121,  
129) }
```

Background

The CSS property to change the background color of an element to XYZ 12.9142, 16.3497, 23.2440 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 121, 129) }
```

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

```
.background{ background-color: rgb(64, 121,  
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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