

Converting Colors

XYZ(12.3586, 18.4407, 19.7754)

Have a look what the booklet for
XYZ(12.3586, 18.4407, 19.7754)
contains.

XYZ(12.3614, 18.4527, 19.7398)	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(12.3614, 18.4527,
19.7398)**

Conversions

Conversions Part 1

Format	Color
Hex	258575
RGB	37, 133, 117
RGB Percent	15%, 52%, 46%
CMY	0.8549, 0.4784, 0.5412
CMYK	0.72, 0.00, 0.12, 0.48
HSL	170°, 56%, 33%
HSV	170°, 72%, 52%
XYZ	12.3614, 18.4527, 19.7398
YIQ	102.4720, -52.0800, -25.3280

Conversions

Conversions Part 2

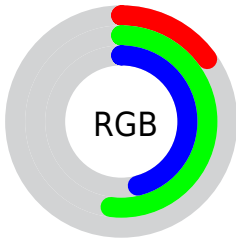
Format	Color
RYB	37, 89, 133
Decimal	2458997
CIELab	50.04, -31.33, 0.67
CIElCh	50, 31.339, 178.777
Yxy	18.4527, 0.2445, 0.3650
Android (android.graphics.Color)	4280649077 (0xFF258575)
YUV	102.4720, 7.1623, -57.4189
Hunter-Lab	42.9566, -23.8080, 2.8242

Details

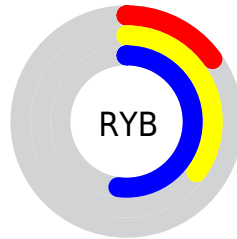
The XYZ color **12.3614, 18.4527, 19.7398** is a dark color, and the websafe version is hex **339999**. A complement of this color would be **10.9777, 6.5674, 4.0581**, and the grayscale version is **12.7452, 13.4090, 14.6024**.

A 20% lighter version of the original color is **29.8615, 40.9466, 43.8657**, and **4.1674, 6.6162, 6.6876** is the 20% darker color. If you saturate the color by 10%, you get **11.8396, 18.1990, 19.0433**, and if you desaturate by 10%, it is **13.0612, 18.7987, 20.4616**.

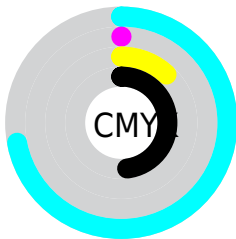
Distribution



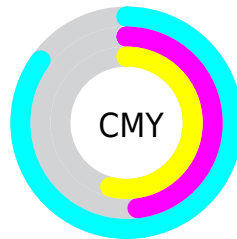
- Red (15%)
- Green (52%)
- Blue (46%)



- Red (15%)
- Yellow (35%)
- Blue (52%)



- Cyan (72%)
- Magenta (0%)
- Yellow (12%)
- Black (48%)



- Cyan (85%)
- Magenta (48%)
- Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3614, 18.4527, 19.7398 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 12.3614, 18.4527, 19.7398 by changing the saturation by 10% instead.

■ 12.3614, 18.4527,
19.7398

■ 12.3614, 18.4527,
19.7398

■ 200.5048,
243.4105, 263.0605

■ 7.0643, 11.2755,
12.0238

■ 29.7628, 40.8072,
43.8337

■ 3.5490, 6.2524,
6.6372

■ 42.5978, 56.7533,
61.0488

■ 1.4503, 2.9992,
3.1613

■ 58.6761, 76.3912,
82.2673

■ 0.2916, 1.1313,
1.1776

■ 78.3631, 100.1051,
107.9078

■ 0.0000, 0.0045,
0.0000

■ 102.0241,
128.2797, 138.3888

■ 0.0000, 0.0000,
0.0000

■ 130.0245,

161.2991, 174.1289

162.7296,
199.5479, 215.5466

■ 12.3614, 18.4527,
19.7398

■ 12.3614, 18.4527,
19.7398

■ 11.8396, 18.1990,
19.0433

■ 13.0612, 18.7987,
20.4616

■ 11.4744, 18.0253,
18.3698

■ 13.9546, 19.2436,
21.2082

■ 11.2478, 17.9196,
17.8566

■ 15.0570, 19.7960,
21.9809

■ 16.3819, 20.4626,
22.7806

■ 17.9417, 21.2500,
23.6077

■ 19.7477, 22.1641,
24.4630

■ 21.8108, 23.2102,
25.3471

■ 24.1409, 24.3936,
26.2606

■ 26.7476, 25.7192,
27.2040

Harmonies

Analogous

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



13.0368, 18.4527, 12.6607



12.3614, 18.4527, 19.7398



12.9356, 18.4527, 29.1832

Triad

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



12.3614, 18.4527, 19.7398



20.4778, 18.4527, 38.4230



20.7162, 18.4527, 8.9821

Complementary

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



12.3614, 18.4527, 19.7398



10.9777, 6.5674, 4.0581

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.



23.1218, 18.4527, 13.1169



12.3614, 18.4527, 19.7398



22.9734, 18.4527, 29.9769

Square

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



12.3614, 18.4527, 19.7398



17.4154, 18.4527, 41.6607



23.9910, 18.4527, 20.4481



17.6627, 18.4527, 7.6511

Rectangle

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



12.3614, 18.4527, 19.7398



13.9916, 18.4527, 35.3314



23.9910, 18.4527, 20.4481



21.6398, 18.4527, 10.0187

Sweetspot

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



12.3619, 18.4534, 19.7402



32.0315, 38.0042, 42.2265



10.2759, 17.7103, 4.6277



7.0677, 8.4869, 9.4376



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.



12.3619, 18.4534, 19.7402



20.7288, 32.3638, 33.2769



9.8079, 11.7087, 23.9341



4.7692, 5.2659, 5.7957



10.7159, 17.0692, 17.0214



0.0393, 0.0600, 0.0705

Inverse Universe

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



10.9777, 6.5674, 4.0581



18.1466, 9.7355, 3.6854



12.0385, 9.1830, 2.8888



4.7019, 4.7005, 5.0426



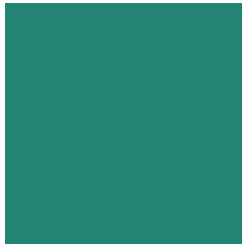
9.3553, 4.8065, 1.1775



0.0342, 0.0174, 0.0138

Previews

White Background



This preview shows how the XYZ color 12.3614, 18.4527, 19.7398 looks on a white 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

Black Background



This preview shows how the XYZ color 12.3614, 18.4527, 19.7398 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

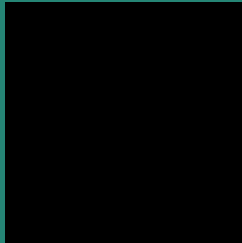
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.3614, 18.4527, 19.7398

Background



This preview shows how black text looks on a background with the XYZ color 12.3614, 18.4527, 19.7398.

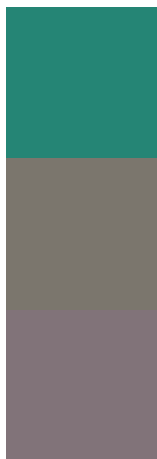


This preview shows how white text looks on a background with the XYZ color 12.3614, 18.4527,

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

12.3614, 18.4527, 19.7398

Protanopia

17.4071, 18.2719, 17.0774

Deuteranopia

18.6352, 18.3091, 20.6410



Tritanopia

14.0316, 18.5368, 27.6494

Trichromacy



Original Color

12.3614, 18.4527, 19.7398

Protanomaly

14.4212, 17.6111, 17.9684

Deuteranomaly

15.1736, 17.7619, 20.3980

Tritanomaly

13.3633, 18.4564, 24.6879

Monochromacy



Original Color

12.3614, 18.4527, 19.7398

Achromatopsia

12.6291, 13.2868, 14.4694

Achromatomaly

11.7009, 14.4915, 16.0904

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3614, 18.4527, 19.7398 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(37, 133, 117)` looks like.

```
.text, #text, p{  
    color:rgb(37, 133, 117)  
}
```

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(37, 133, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(37, 133, 117) }
```

Border

The CSS property to change the border of an element to XYZ 12.3614, 18.4527, 19.7398 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(37, 133, 117) }
```


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

```
.border{ border-color:rgb(37, 133, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(37, 133, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(37, 133, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(37, 133, 117);  
box-shadow:4px 4px 4px 4px rgb(37, 133,  
117) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3614, 18.4527, 19.7398 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(37, 133, 117) }
```

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

```
.background{ background-color: rgb(37, 133,  
117) }
```

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