

Converting Colors

XYZ(12.4261, 20.1443, 15.2471)

Have a look what the booklet for
XYZ(12.4261, 20.1443, 15.2471)
contains.

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Color

**XYZ(12.3715, 20.0336,
15.2714)**

Conversions

Conversions Part 1

Format	Color
Hex	238C64
RGB	35, 140, 100
RGB Percent	14%, 55%, 39%
CMY	0.8627, 0.4510, 0.6078
CMYK	0.75, 0.00, 0.29, 0.45
HSL	157°, 60%, 34%
HSV	157°, 75%, 55%
XYZ	12.3715, 20.0336, 15.2714
YIQ	104.0450, -49.7400, -34.7000

Conversions

Conversions Part 2

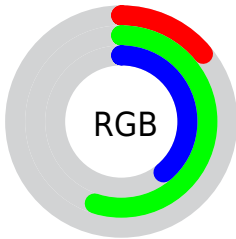
Format	Color
R_{YB}	35, 100, 140
Decimal	2329700
CIE _{Lab}	51.88, -39.17, 13.11
CIE _{LCh}	52, 41.307, 161.491
Yxy	20.0336, 0.2595, 0.4202
Android (android.graphics.Color)	4280519780 (0xFF238C64)
YUV	104.0450, -1.9942, -60.5525
Hunter-Lab	44.7589, -28.9901, 11.1019

Details

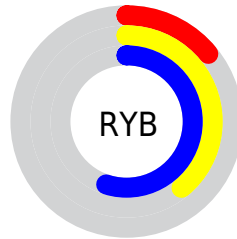
The XYZ color **12.3715, 20.0336, 15.2714** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **12.6870, 7.2861, 7.3953**, and the grayscale version is **13.1855, 13.8722, 15.1068**.

A 20% lighter version of the original color is **29.7016, 43.3047, 36.0714**, and **4.2150, 7.4018, 4.5747** is the 20% darker color. If you saturate the color by 10%, you get **11.7383, 19.7365, 13.9383**, and if you desaturate by 10%, it is **13.2123, 20.4368, 16.7034**.

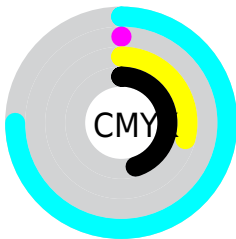
Distribution



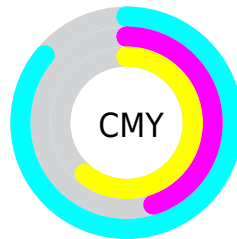
- Red (14%)
- Green (55%)
- Blue (39%)



- Red (14%)
- Yellow (39%)
- Blue (55%)



- Cyan (75%)
- Magenta (0%)
- Yellow (29%)
- Black (45%)



- Cyan (86%)
- Magenta (45%)
- Yellow (61%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3715, 20.0336, 15.2714 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 12.3715, 20.0336, 15.2714 by changing the saturation by 10% instead.

■ 12.3715, 20.0336,
15.2714

■ 12.3715, 20.0336,
15.2714

200.5695,
252.0970, 236.7002

■ 7.0712, 12.4195,
8.8613

■ 29.7810, 43.4735,
36.0776

■ 3.5534, 7.0300,
4.5553

■ 42.6208, 60.0681,
51.3108

■ 1.4527, 3.4809,
1.9346

■ 58.7046, 80.4249,
70.3222

■ 0.2933, 1.3876,
0.5146

■ 78.3976, 104.9284,
93.5303

■ 0.0000, 0.2076,
0.0000

■ 102.0653,
133.9630, 121.3536

■ 0.0000, 0.0000,
0.0000

■ 130.0729,

167.9130, 154.2106

162.7859,
207.1629, 192.5200

■ 12.3715, 20.0336,
15.2714

■ 12.3715, 20.0336,
15.2714

■ 11.7383, 19.7365,
13.9383

■ 13.2123, 20.4368,
16.7034

■ 11.2833, 19.5290,
12.6996

■ 14.2797, 20.9542,
18.2354

■ 11.0851, 19.4395,
12.1133

■ 15.5919, 21.5959,
19.8703

■ 17.1652, 22.3700,
21.6105

■ 19.0141, 23.2842,
23.4581

■ 21.1521, 24.3453,
25.4153

■ 23.5919, 25.5598,
27.4840

■ 26.3452, 26.9337,
29.6662

■ 29.4234, 28.4729,
31.9638

Harmonies

Analogous

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



14.1823, 20.0336, 8.6825



12.3715, 20.0336, 15.2714



12.1808, 20.0336, 26.7458

Triad

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



12.3715, 20.0336, 15.2714



20.6936, 20.0336, 53.1810



25.7442, 20.0336, 9.8100

Complementary

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



12.3715, 20.0336, 15.2714



12.6870, 7.2861, 7.3953

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.



28.0890, 20.0336, 17.5277



12.3715, 20.0336, 15.2714



24.9000, 20.0336, 44.0932

Square

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



12.3715, 20.0336, 15.2714



16.5940, 20.0336, 51.8663



27.7591, 20.0336, 29.9983



21.7182, 20.0336, 6.4231

Rectangle

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



12.3715, 20.0336, 15.2714



12.9586, 20.0336, 36.2403



27.7591, 20.0336, 29.9983



26.7801, 20.0336, 11.8354

Sweetspot

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



12.3720, 20.0344, 15.2719



34.4273, 41.4986, 42.2121



12.6034, 20.3844, 4.8608



7.7390, 9.4662, 9.5437



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



12.3720, 20.0344, 15.2719



20.1136, 34.5290, 23.0488



13.1140, 17.6248, 27.5226



5.0934, 5.6568, 6.0128



9.8590, 17.2762, 10.8143



0.0727, 0.1176, 0.1095

Inverse Universe

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



12.6870, 7.2861, 7.3953



20.7405, 10.8477, 8.6255



12.1458, 7.7505, 2.4463



5.1066, 5.0781, 5.6497



10.1968, 5.1888, 3.5405



0.0745, 0.0372, 0.0590

Previews

White Background



This preview shows how the XYZ color 12.3715, 20.0336, 15.2714 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 12.3715, 20.0336, 15.2714 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

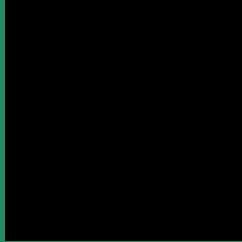
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.3715, 20.0336, 15.2714

Background



This preview shows how black text looks on a background with the XYZ color 12.3715, 20.0336, 15.2714.



This preview shows how white text looks on a background with the XYZ color 12.3715, 20.0336,

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

12.3715, 20.0336, 15.2714

Protanopia

18.5304, 19.8442, 12.9789

Deuteranopia

20.0127, 19.6395, 16.1006



Tritanopia

15.3233, 19.9644, 29.8340

Trichromacy



Original Color

12.3715, 20.0336, 15.2714

Protanomaly

14.8456, 19.0681, 13.7245

Deuteranomaly

15.3885, 18.7258, 15.6353

Tritanomaly

14.0332, 19.8463, 23.8600

Monochromacy



Original Color

12.3715, 20.0336, 15.2714

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

12.0339, 15.3641, 15.1633

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3715, 20.0336, 15.2714 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(35, 140, 100)` looks like.

```
.text, #text, p{  
    color:rgb(35, 140, 100)  
}
```

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(35, 140, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 140, 100) }
```

Border

The CSS property to change the border of an element to XYZ 12.3715, 20.0336, 15.2714 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(35, 140, 100) }
```


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

```
.border{ border-color:rgb(35, 140, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 140, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 140, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 140, 100);  
box-shadow:4px 4px 4px 4px rgb(35, 140,  
100) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3715, 20.0336, 15.2714 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 140, 100) }
```

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

```
.background{ background-color: rgb(35, 140,  
100) }
```

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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