



Wolfram Language™

Gallery of Tweetable Programs

Designed for the new generation of programmers, the Wolfram Language has a vast depth of built-in algorithms and knowledge, all automatically accessible through its elegant unified symbolic language. Scalable for programs from tiny to huge, with immediate deployment locally and in the cloud, the Wolfram Language builds on clear principles—and 25+ years of development—to create what promises to be the world's most productive programming language.

This gallery shows a few examples of tiny programs in the Wolfram Language—and big things they can do...

Core Language
& Structure



Data Manipulation
& Analysis



Visualization
& Graphics



Symbolic & Numeric
Computation



Strings & Text

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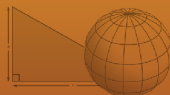
Graphs & Networks



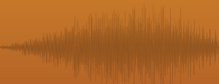
Images



Geometry



Sound



Time-Related
Computation



Geographic Data
& Computation



Scientific and Medical
Data & Computation



Engineering Data
& Computation



Financial Data
& Computation



Social, Cultural,
& Linguistic Data



Higher Mathematical
Computation

$$\sum_{k=0}^{\infty} \frac{(a_1)_k}{(b_1)_k}$$

Documents
& Presentation



User Interface
Construction



System Operation
& Setup



External Interfaces
& Connections

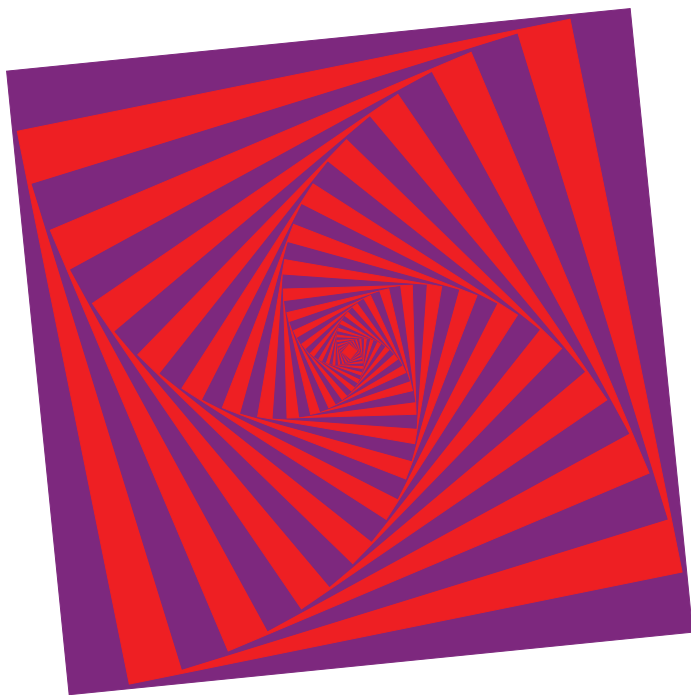


Cloud & Deployment





```
Graphics[{White, Riffle[NestList[Scale[Rotate[#, 0.1], 0.9] &,  
Rectangle[], 40], {Purple, Red}]]}
```



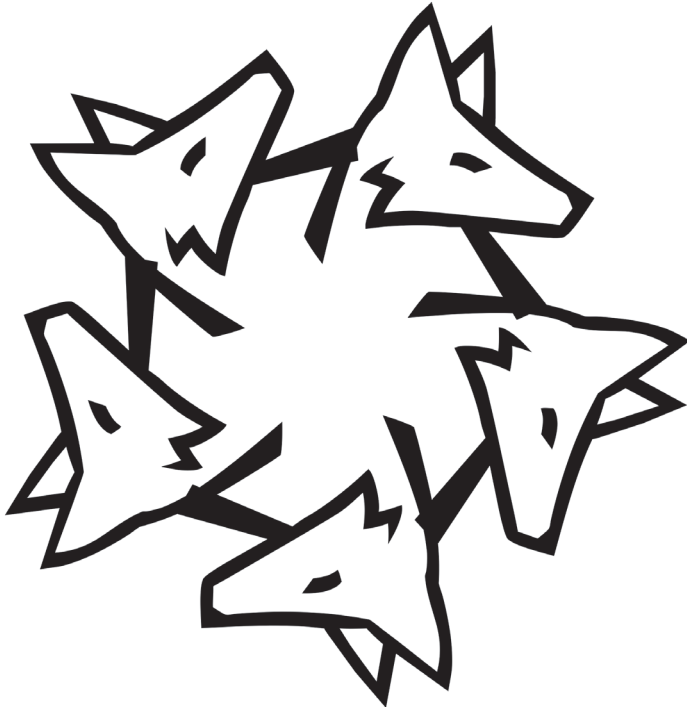


```
c = EntityValue[CityData[{Large, "France"}], "Coordinates"];  
GeoGraphics[{Red, Thick, Line@c[[Last[FindShortestTour[c]]]]}]
```



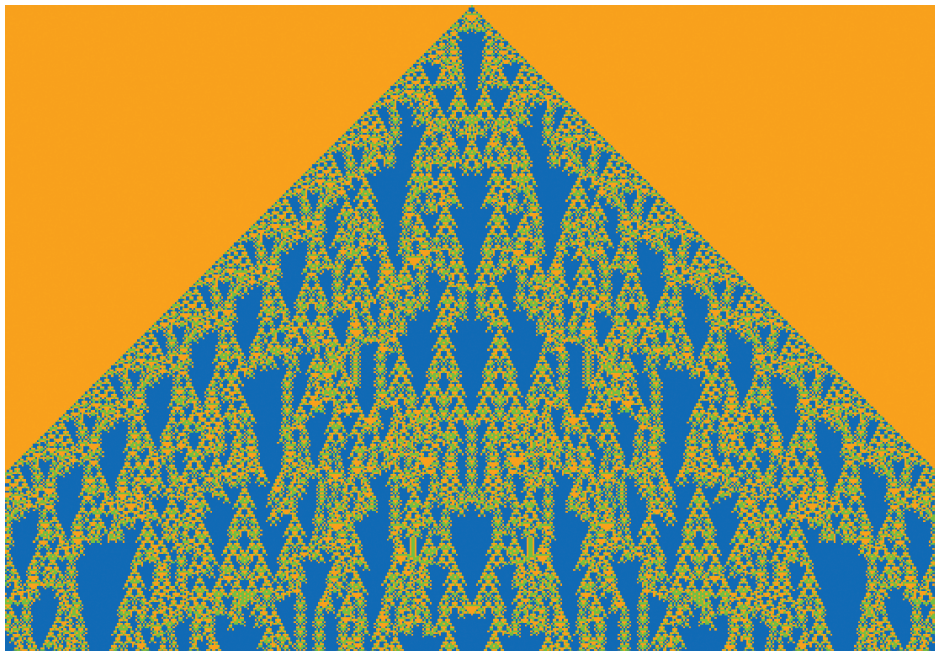


```
Graphics[Table[Rotate[Text[Style[[WolframLanguageLogo], 160,  
FontFamily -> "Times"], {1, 1.5}], i 2 Pi/5, {0, 0}], {i, 1, 5}]]
```



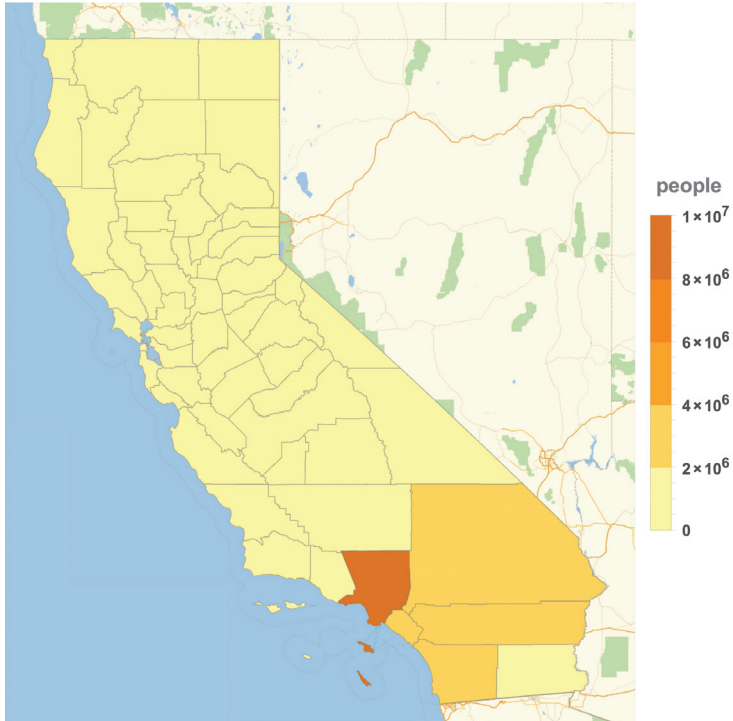


```
ArrayPlot[CellularAutomaton[{{1635, {3, 1}},  
{{1}, 0}, 500], ColorFunction -> (Hue[.1 + .5#] &)]
```



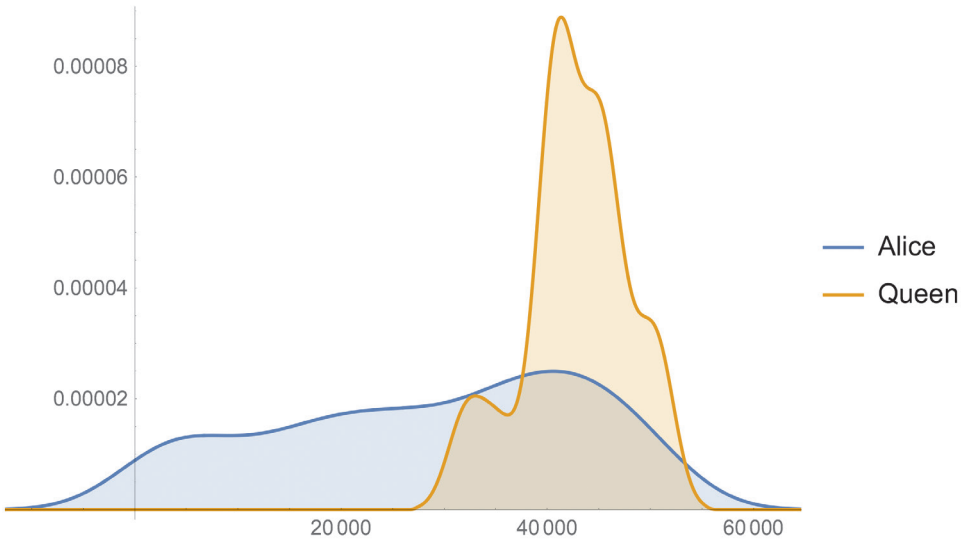


GeoRegionValuePlot[Entity["AdministrativeDivision", {_, "California", "UnitedStates"}] -> "Population"]





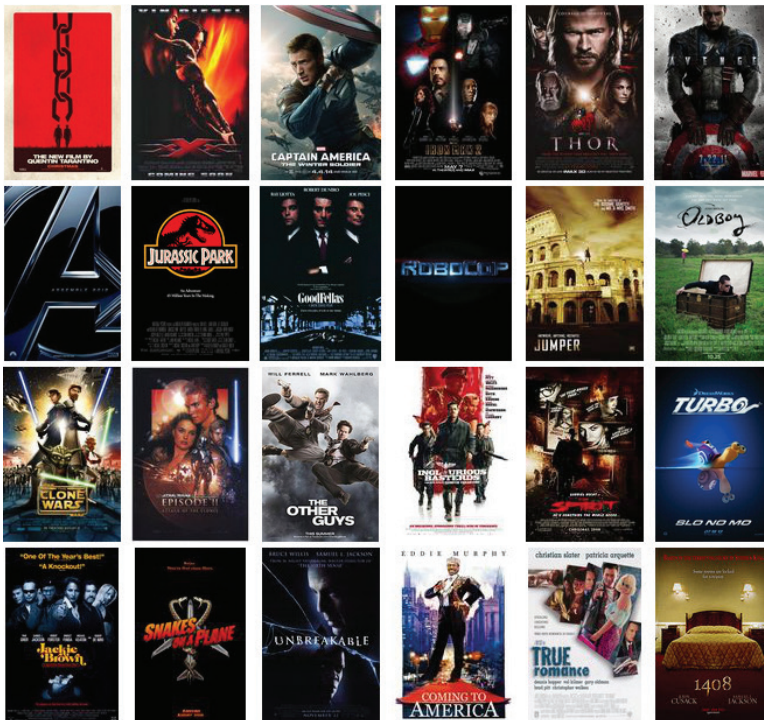
```
SmoothHistogram[Legended[First /@ StringPosition[  
ExampleData@{"Text", "AliceInWonderland"}, #], #] & /@  
{"Alice", "Queen"}, Filling -> Axis]
```





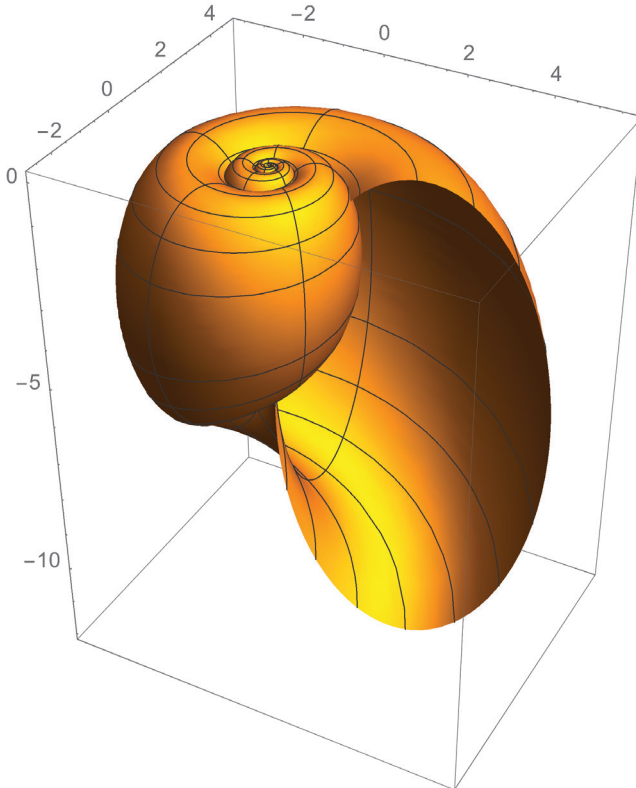
Grid@Partition[DeleteMissing[#["Image"]] & /@

Take[samuel jackson ["MovieAppearances"], 24]], 6]



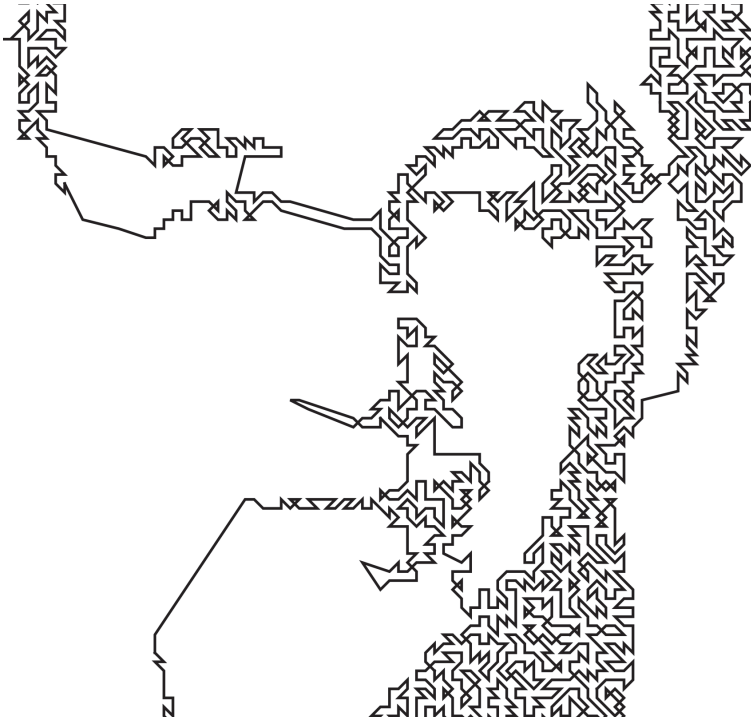


```
ParametricPlot3D[1.2^v {Cos[v] (1 + Cos[u]),  
- Sin[v] (1 + Cos[u]), -2 (1 + Sin[u])}, {u, 0, 2 Pi}, {v, -15, 6},  
PlotRange -> All, PlotPoints -> 40]
```



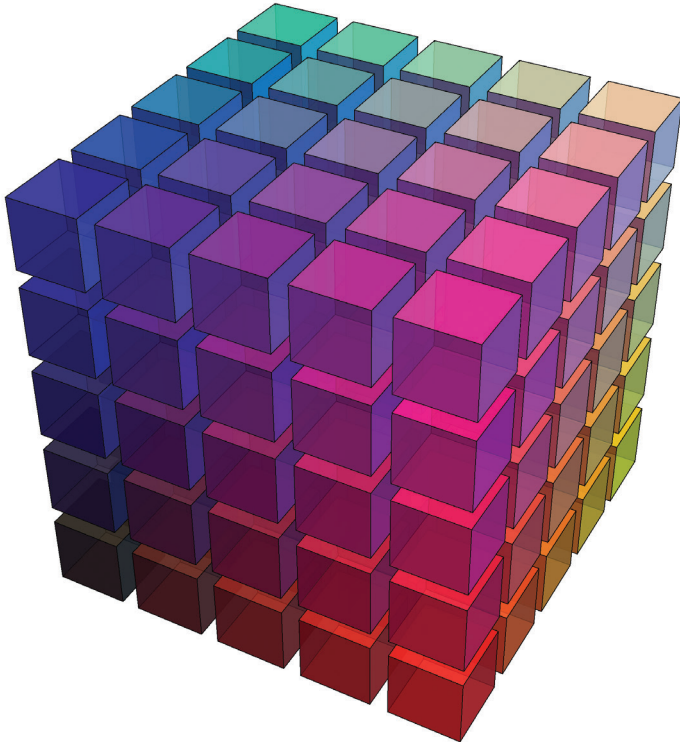


```
p = PixelValuePositions[Binarize[stephen wolfram image], .4], 0];  
Graphics[Line[p[[FindShortestTour[p]{{2}}]]]]
```





```
Graphics3D[{{RGBColor[#/5], Opacity[.8], Cuboid[#, # + .8]} & /@  
Tuples@Table[Range[5], {3}]}
```





Partition[Column[#{#, DominantColors[#]}, Alignment -> Center] & /@
#{["Image"]} & /@ Take[van gogh artwork, 9], 3]



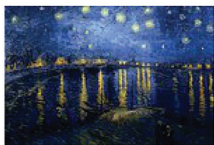
{blue, black, green}



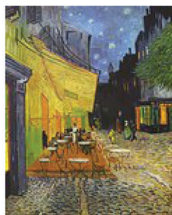
{black, brown}



{green, light green, blue, brown}



{black, blue, brown}



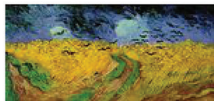
{black, grey, yellow, blue, brown}



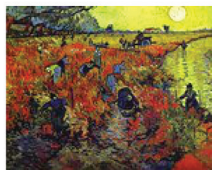
{orange, red, brown}



{grey, brown, blue}



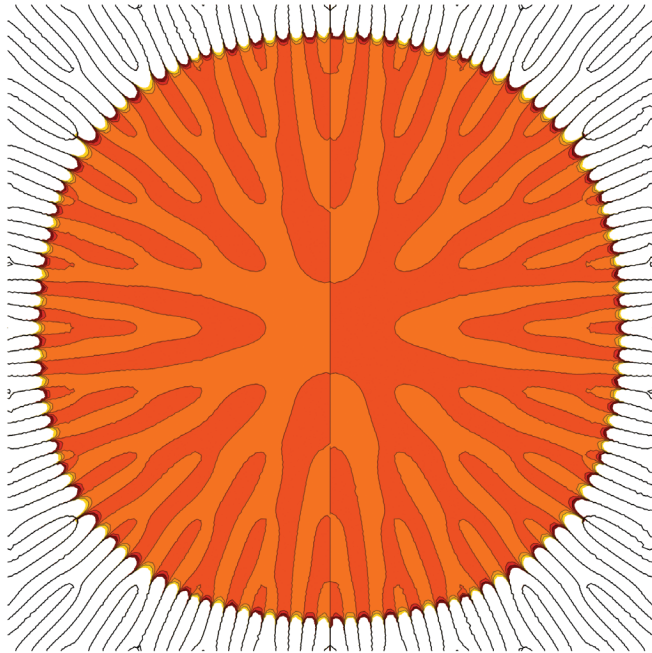
{yellow, blue, brown, black, green}



{black, light green, red}

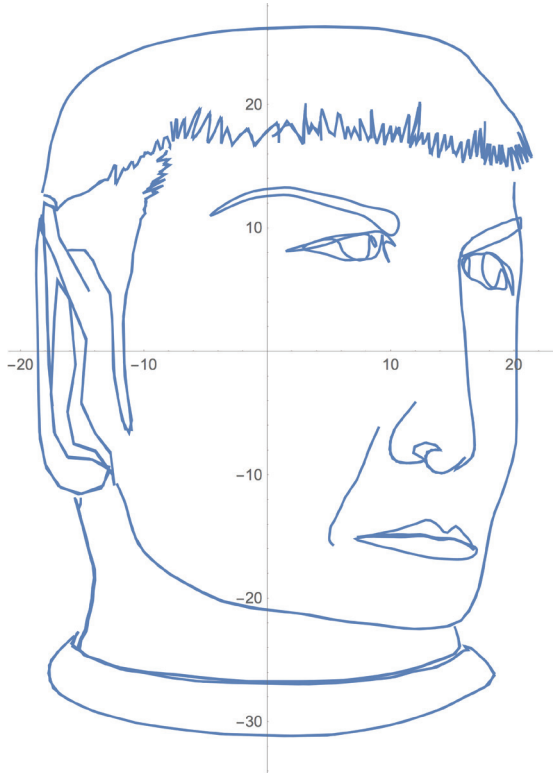


```
ContourPlot[Evaluate[Re[Product[x + I y - (a + I b), {a, -5, 5}, {b, -5, 5}]],  
{x, -5, 5}, {y, -5, 5}, ColorFunction -> "SolarColors"]]
```



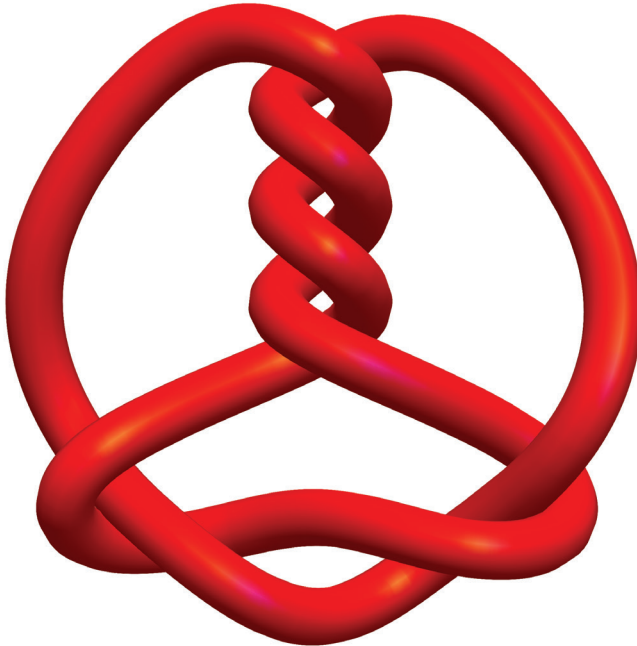


```
c = spock curve equation [t]; ParametricPlot[ Evaluate[Sign[#]  
Abs[#]^(2/3) &@c], {t, 0, 72 Pi}, MaxRecursion -> 6, PlotRange -> All]
```



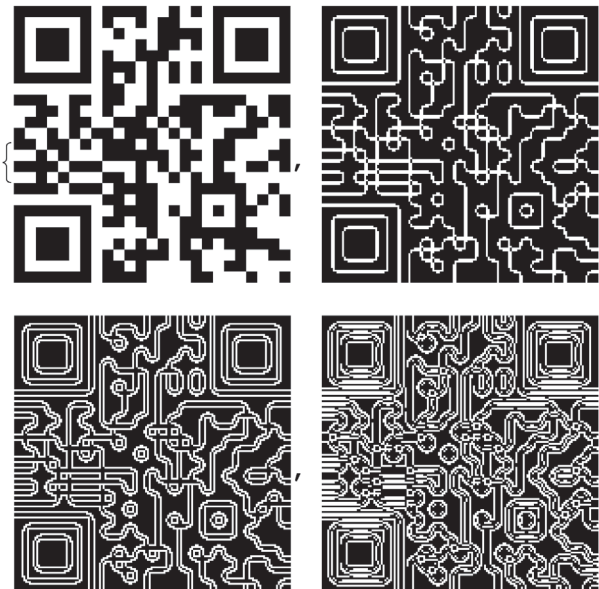


```
Graphics3D[{{Red, Specularity[White, 70], KnotData[{{8, 3}, "ImageData"]},  
Boxed -> False, ViewPoint -> {0, 0.1, 5}]
```





```
NestList[EdgeDetect, BarcodeImage[  
"http://wolframtap.tumblr.com", "QR"], 3]
```





```
GeoGraphics[{{EdgeForm[Black], {GeoStyling[{"Image", #2}],  
Polygon[#1]} & @@@ =african countries [{"Entity", "Flag"}]},  
GeoBackground -> White]
```





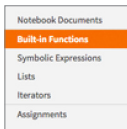
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Fast Introduction for Programmers
[wolfram.com/language/
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Wolfram Language Reference
reference.wolfram.com/language