



**FROM THE
CUTTING
ROOM
FLOOR:
A FREE
MAZE BOOK**

Robert Schenk
ingrimayne.com

From the
Cutting Room
Floor:
A Free Maze
Book

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From the Cutting Room Floor: A Free Maze Book is a new work, first published by IngrimayneType in 2013.

IngrimayneType

<http://ingrimayne.com/mazes/mazeindex.htm>
mazepuzzles.blogspot.com

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Introduction

This book is a free pdf file because it is promotional, i.e., advertising. Its purpose is to promote printed books that are available for sale on Amazon.com. Let me explain.

In the mid 1990s I developed a maze construction set that consisted of several computer programs that generated mazes in different ways. Although the programs generate a maze as a grid of numbers, they save the maze as a text file of what appeared to be gibberish. To make these text files appear as mazes, they needed to be displayed with specially designed typefaces (or maze fonts) that I construct. The advantage of making mazes in this way is that it allows any maze to take on many different appearances. The specially designed typefaces determined the look of the maze.

In the 1990s Dover published two short books of mazes designed with my maze construction set and they are still in print. I was eager to do more, but could not find anyone to publish them, so I moved on to other interests. In late 2011 I returned to mazes and discovered that print-on-demand publishing made publication easy and cheap. In the course of a

year I designed nine maze books, each 108 pages long, all available on amazon.com.

This book is a strange tour through my twelve maze books. It shows mazes that did not make the final cut but that still illustrate the kind of mazes that are in the book. Along with these outtakes from the cutting room floor are comments about the books, the mazes, and sometimes an explanation of why a particular maze was not included. Because the printed books are meant for different audiences, from preschool to adult, the difficulty of the mazes included here varies from trivial to moderately difficult.

You may give away copies of the pdf file to others as long as it is unchanged, with no additions or subtractions. Again, the purpose of this book is to promote my maze books, especially those that are self published, and anything that would detract from that would violate my copyright.

Enjoy the book and its 25 mazes. I apologize for any mistakes that remain. The home for this book is ingrimaye.com and any updates to this book will be found there.

Robert Schenk
February 2013

The Dover Books: *Fascinating Mazes & Maze Madness*

I am thankful that Dover gave me a start in maze books. When I approached them with my first book, I suggested the title *Alice in Mazeland* because it was organized around a story of a girl named Alice who had adventures similar to and derived from the *Alice in Wonderland* book. Dover rejected the title citing copyright concerns, which seemed strange to me because *Alice in Wonderland* was published in 1865 and should be out of copyright. Dover titled the book *Fascinating Mazes*. The book seems to have sold well enough to require a second printing—the cover that is shown now is different from the original cover.

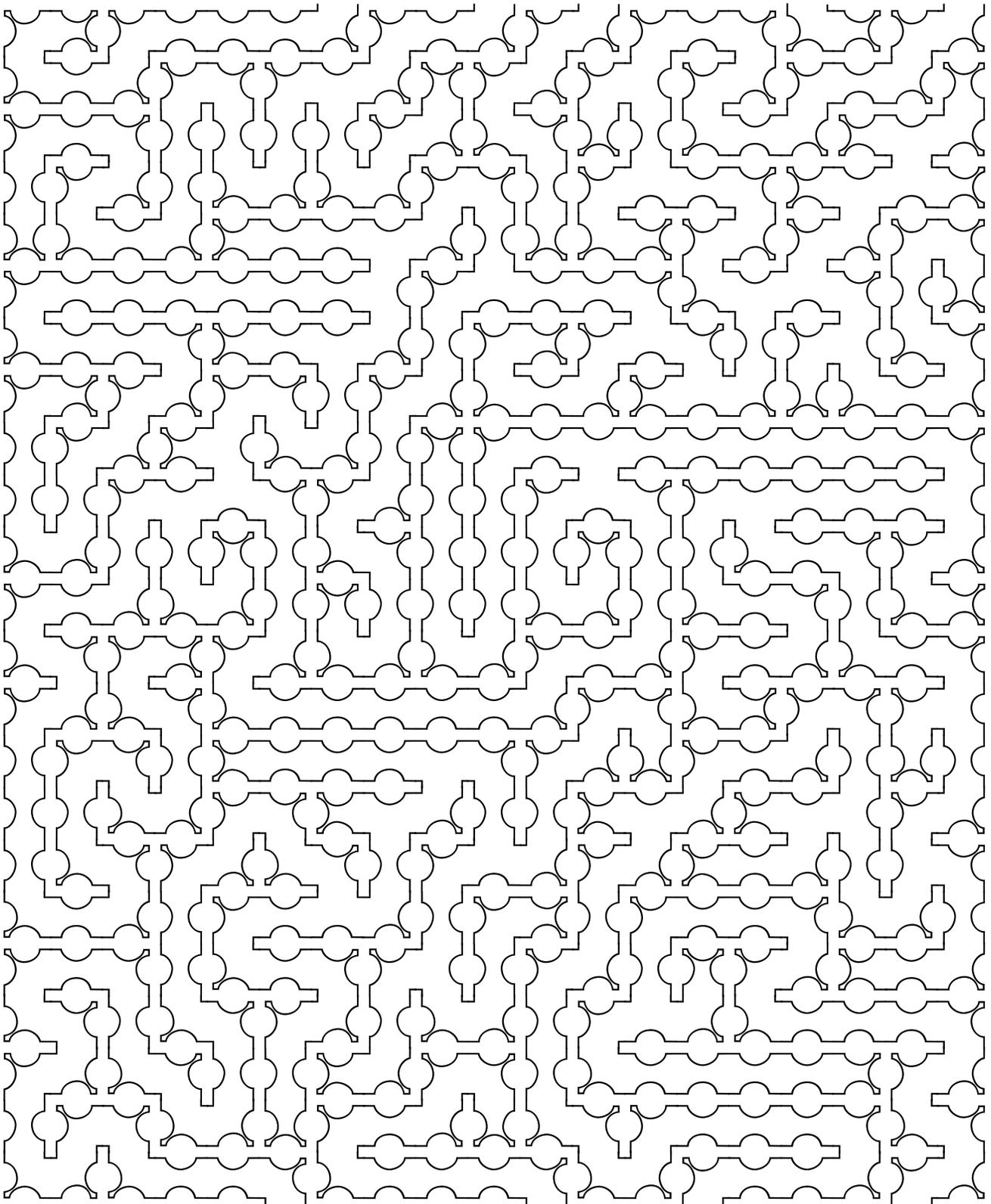
My organizing theme for the second Dover book was puzzles and puzzling things. I wanted the title to be *More Puzzling Mazes* because it was both descriptive and ambiguous. Dover rejected that title because they had a book titled *Puzzling Mazes* and did not want to have another with a similar name. Instead they called the book *Maze Madness*.

I tried to push boundaries of what a maze could be in this book. Normally one solves a maze by following the empty space between boundaries. The oddest form of maze used in *Maze Madness* were mazes

of blocks of letters or numbers without a traditional passageway. In these mazes one could pass from block to block only if the blocks met some criteria. In one you could only travel on blocks that had vowels and in another the passages were even-numbered blocks with odd-numbered blocks forming the walls. As I was working on this document, I decided that I needed to explore this area further. See page 32 below.

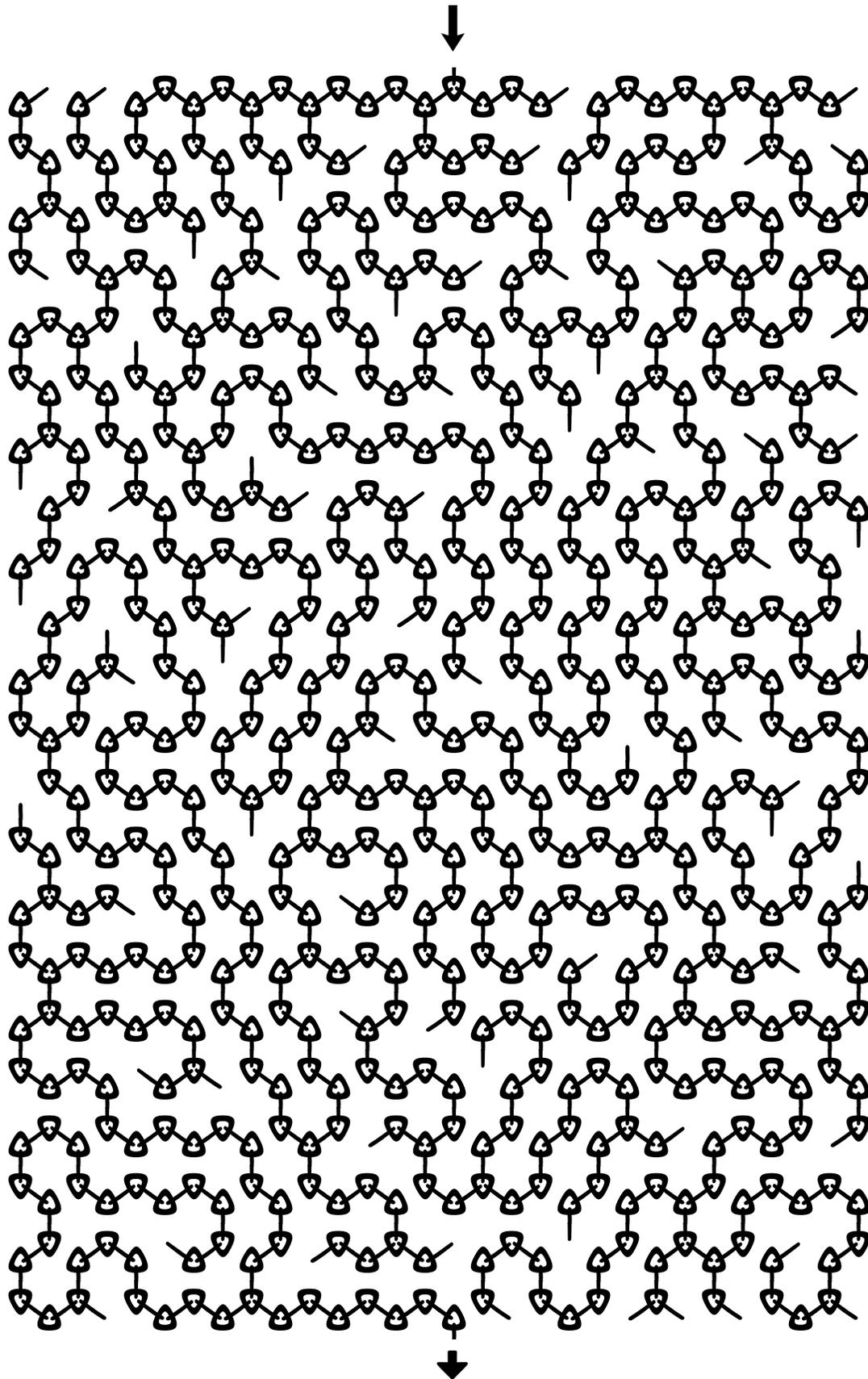
Maze Madness did not sell well and it ended my career as a maze maker for Dover. The title selection probably contributed to poor sales because it gave no hint of what set the book apart. Rather than using one of the visually interesting mazes in the book, the cover displayed one of my pushing-the-boundaries mazes, and that also may have put off potential buyers.

I have no incentive to promote these books because I get nothing from them. I was paid a commission upon completion and there are no royalties. Nevertheless, the two books are considerably different from my more recent maze books and allow me to show some maze fonts that have sat idle for almost two decades.



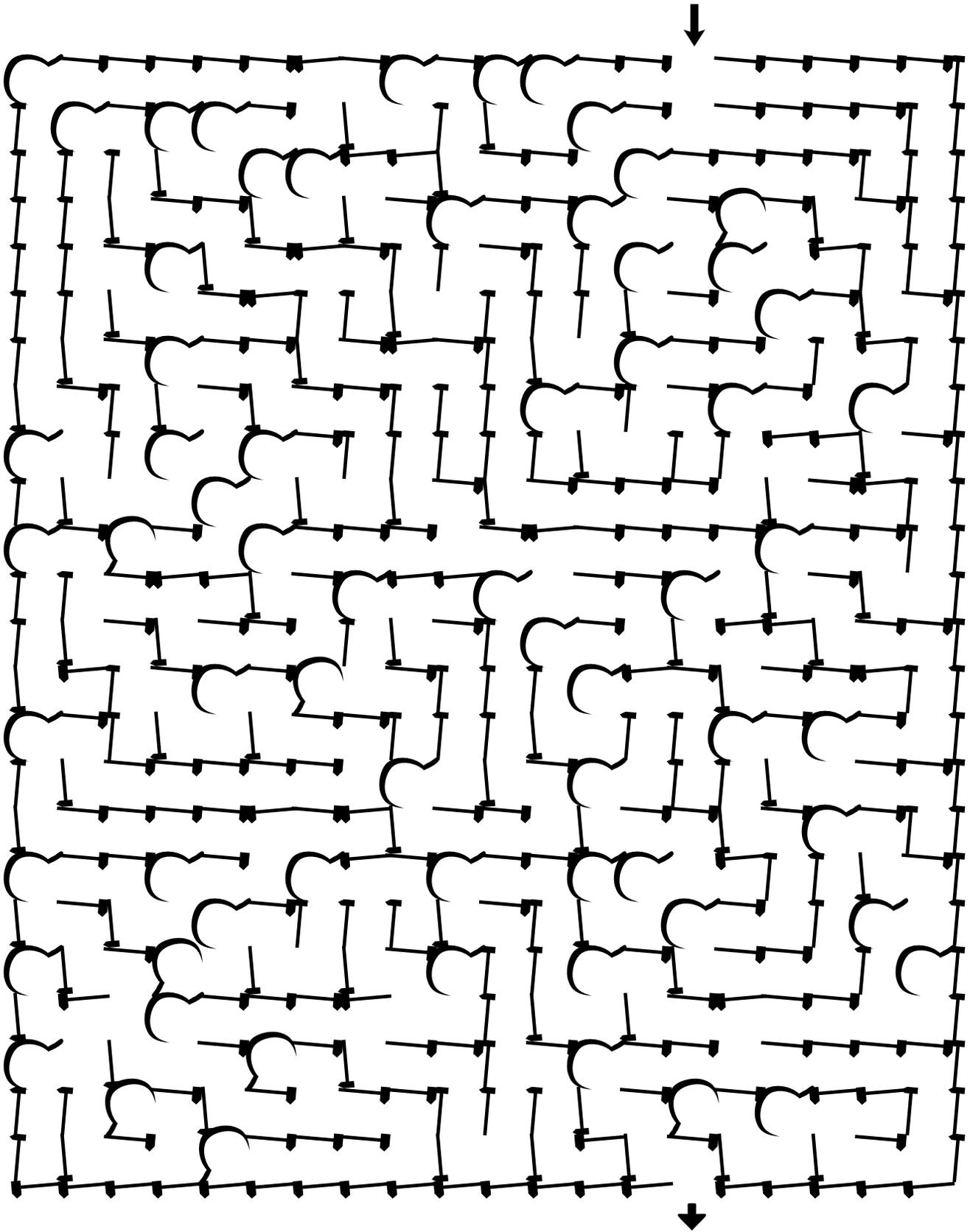
Unbubble

I used a bubble motif several places in *Fascinating Mazes*. Here is the inverse bubble maze, where instead of staying in corridors with the bubbles, you go between them. There are multiple entrances but only one path from top to bottom.



Alice Enchained Two

In this maze you stay on the chain rather than try to travel in the spaces between the chains. Chains managed to make an appearance in *Fascinating Mazes*, but not these chains.



Economic Mysteries

Some people think it is puzzling that socialism in practice disappoints. A bit of familiarity with the rudiments of economics dispels that mystery.

CreateSpace: *Casey Loves Trains (and Likes Mazes)*

Casey Loves Trains (and Likes Mazes) originated from a suggestion from my daughter whose son was at the time fascinated with trains. Initially I dismissed the idea of doing a book of train mazes because trains are linear and mazes are not and I did not think I could do much with my way of constructing mazes. After reflection I decided the task would be an enjoyable challenge. I organized the book around a train trip which allowed for a variety of non-train items to be included (such as dinosaurs, the other topic my daughter thought would make a good maze book). I used mazes along with photos from one of my train trips to illustrate the story.

In early 2013 I made some revisions to *Casey Loves Trains*,

altering a few mazes, adding several, and deleting several. The next two pages contain two of the deleted mazes. They were cut because I thought they were the weakest pages in the book and I found something better to replace them.

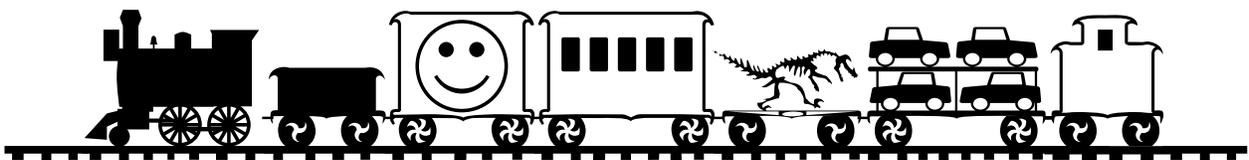
Because the mazes in *Casey Loves Trains (and Likes Mazes)* are intended for a young child, most of them are quite simple and the book does not contain solutions.

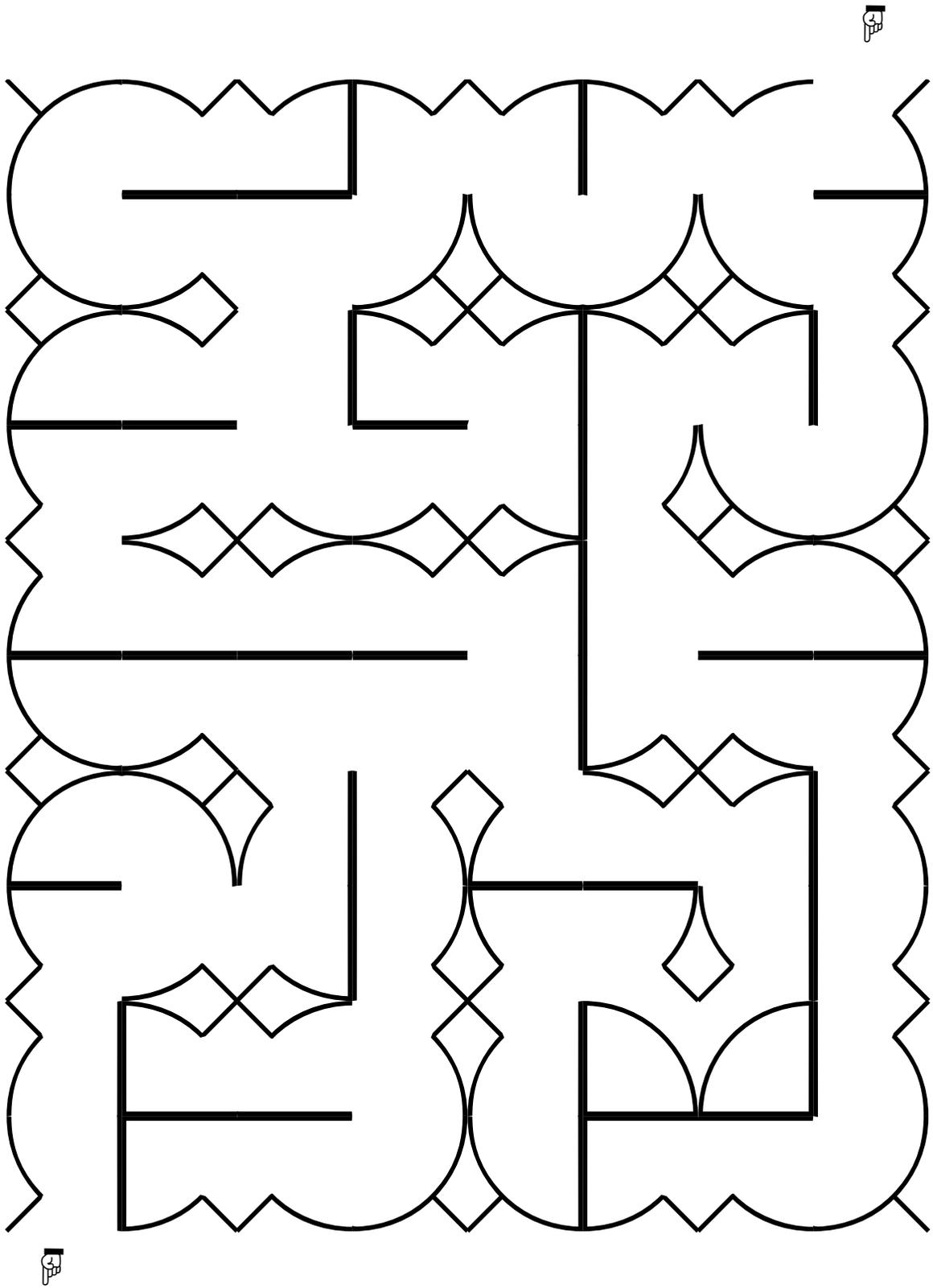
For more information go to

<http://ingrimayne.com/mazes/caseytrains.htm>

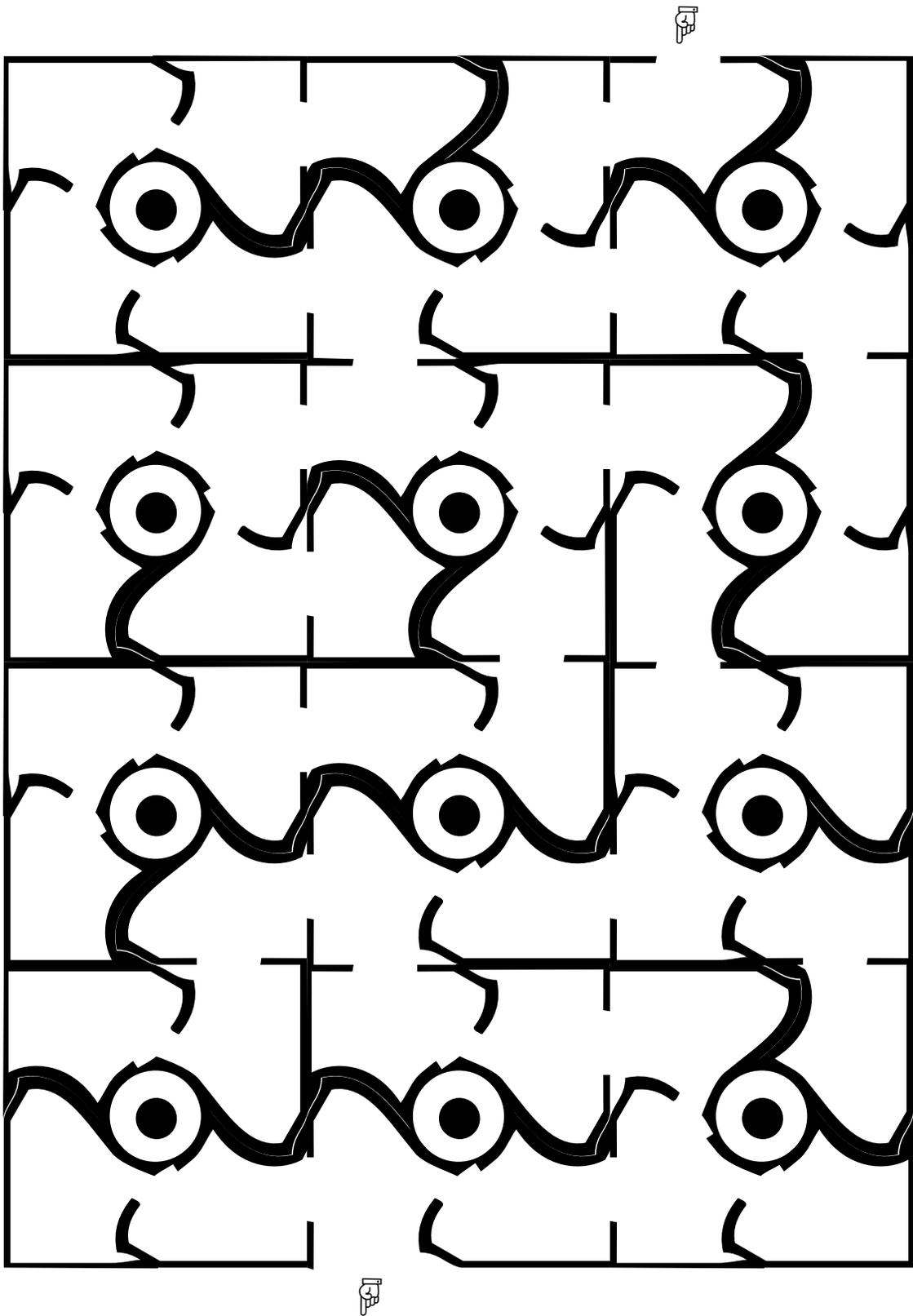
and

<http://mazepuzzles.blogspot.com/2013/02/revisting-trains.html>





The little museum at the station did not have a steam locomotive, but it did have some wheels from old trains.



When Casey woke up the sun was rising and his mother was already awake. She told him to open his eyes because the train would soon be making a short stop.

CreateSpace: *Tantalizing Tessellating Mazes & More Tessellating Mazes*

Casey Loves Trains (and Likes Mazes) was the only maze book I completed in 2012 that had a story line. The other eight maze books focused on themes of lettering, tessellations, tessellating letters, and/or patterns.

After I finished *Maze Madness*, I was eager to do more maze books and had several ideas that I pitched to publishers without success. One of those ideas was to do a book in which the mazes were based on tessellating shapes, shapes that repeat to fill the plane. Although I did not start with this theme when I returned to mazes in 2011, it quickly followed. Because I designed the book to appeal to elementary school children, the mazes are fairly easy, so easy that few adults would find the book entertaining.

I had developed many maze fonts based on tessellating patterns in the year or two after *Maze Madness* was finished, so it did not take very long to finish the first book of tessellating mazes, titled *Tantalizing Tessellating Mazes*. It contains 70 mazes with solutions. The solutions are shown two-to-a-page because I thought some people might find the tessellation patterns at least as interesting as the mazes. The book is

108 pages long, as all the books published through CreateSpace have been.

It took four months before I had created enough new tessellation patterns to do a followup volume, named simply *More Tessellating Mazes*. It has the same format as the first tessellating maze book, 70 mazes with solutions.

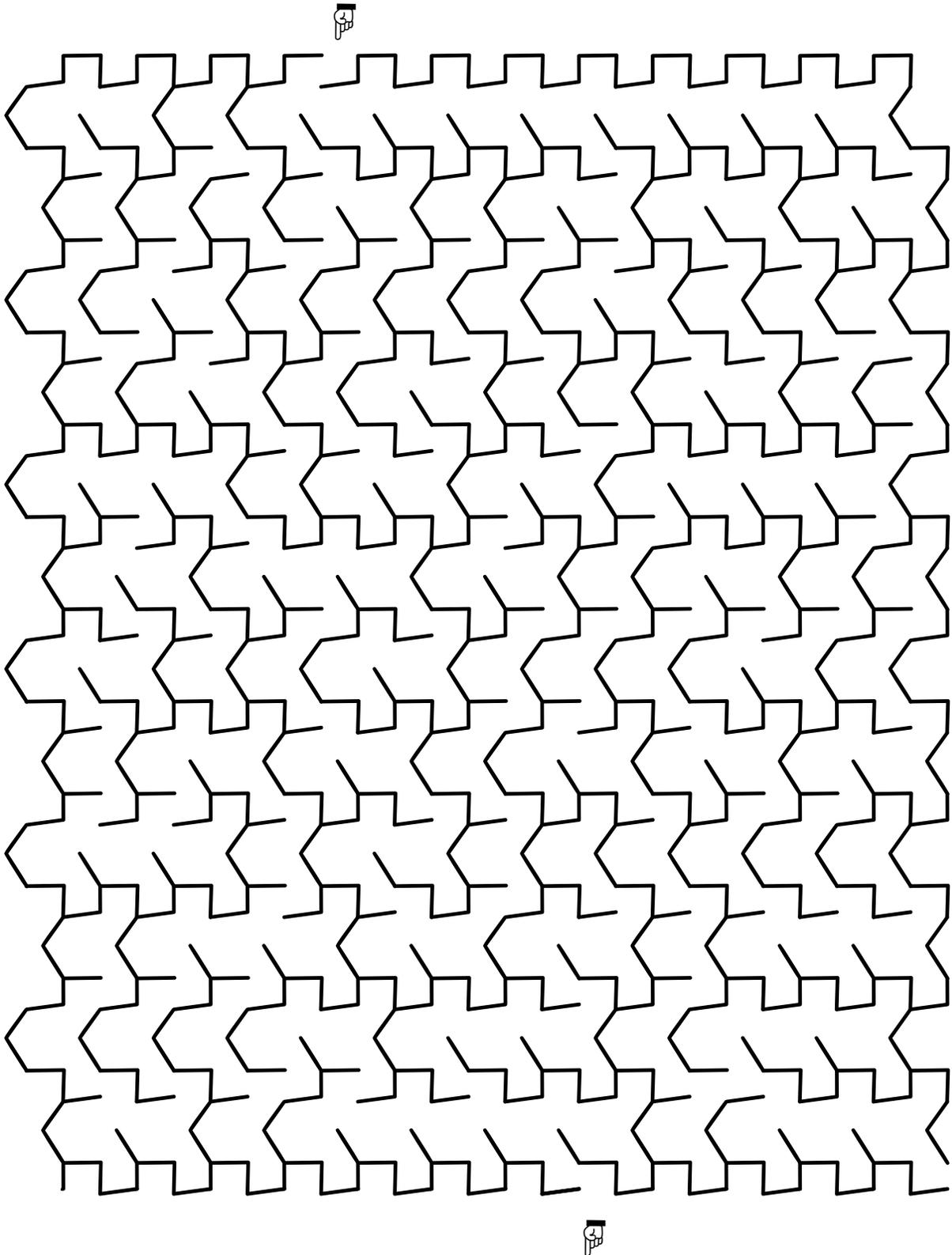
The reason for making these books 108 pages comes from the way that CreateSpace charges for the books. For a black and white interior the cost is constant until 108 pages, and then each additional page costs the author extra. I would like to produce shorter books that cost less, but that is not possible, so there is no reason not to take advantage of the free pages up to 108.

For more informations go to

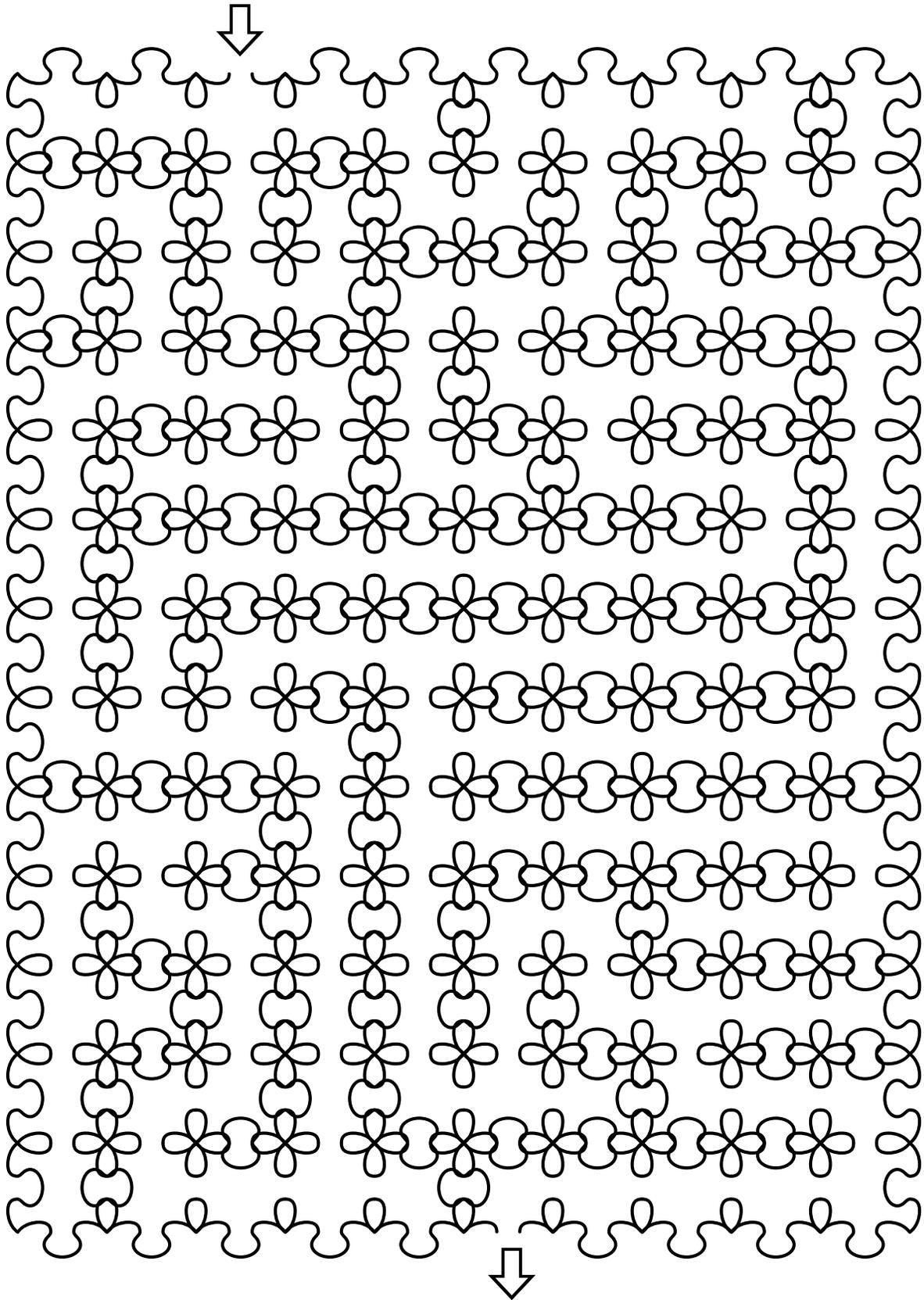
http://ingrimayne.com/mazes/tessellating_mazes.htm

and

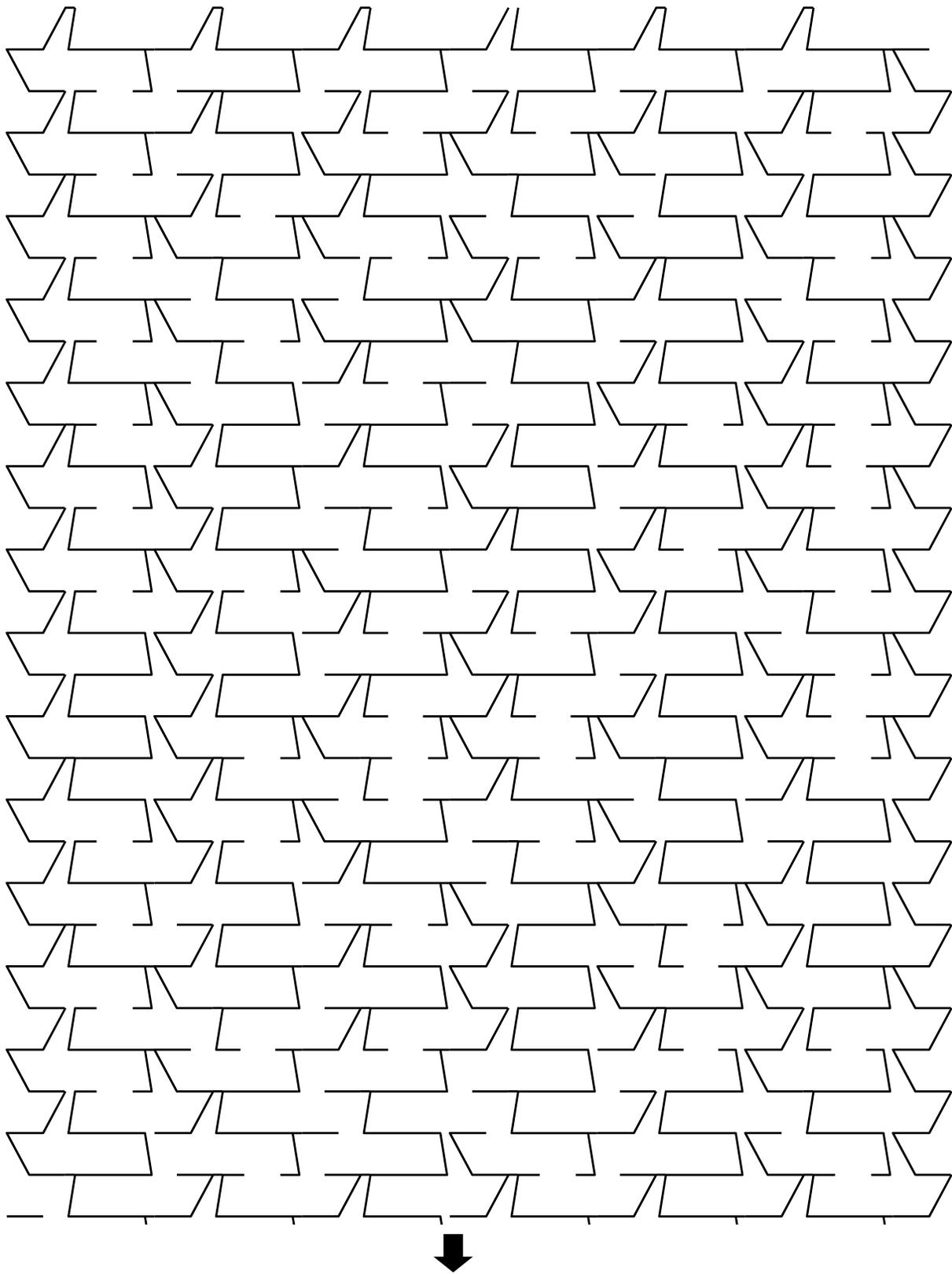
<http://ingrimayne.com/mazes/moretessmaze.htm>



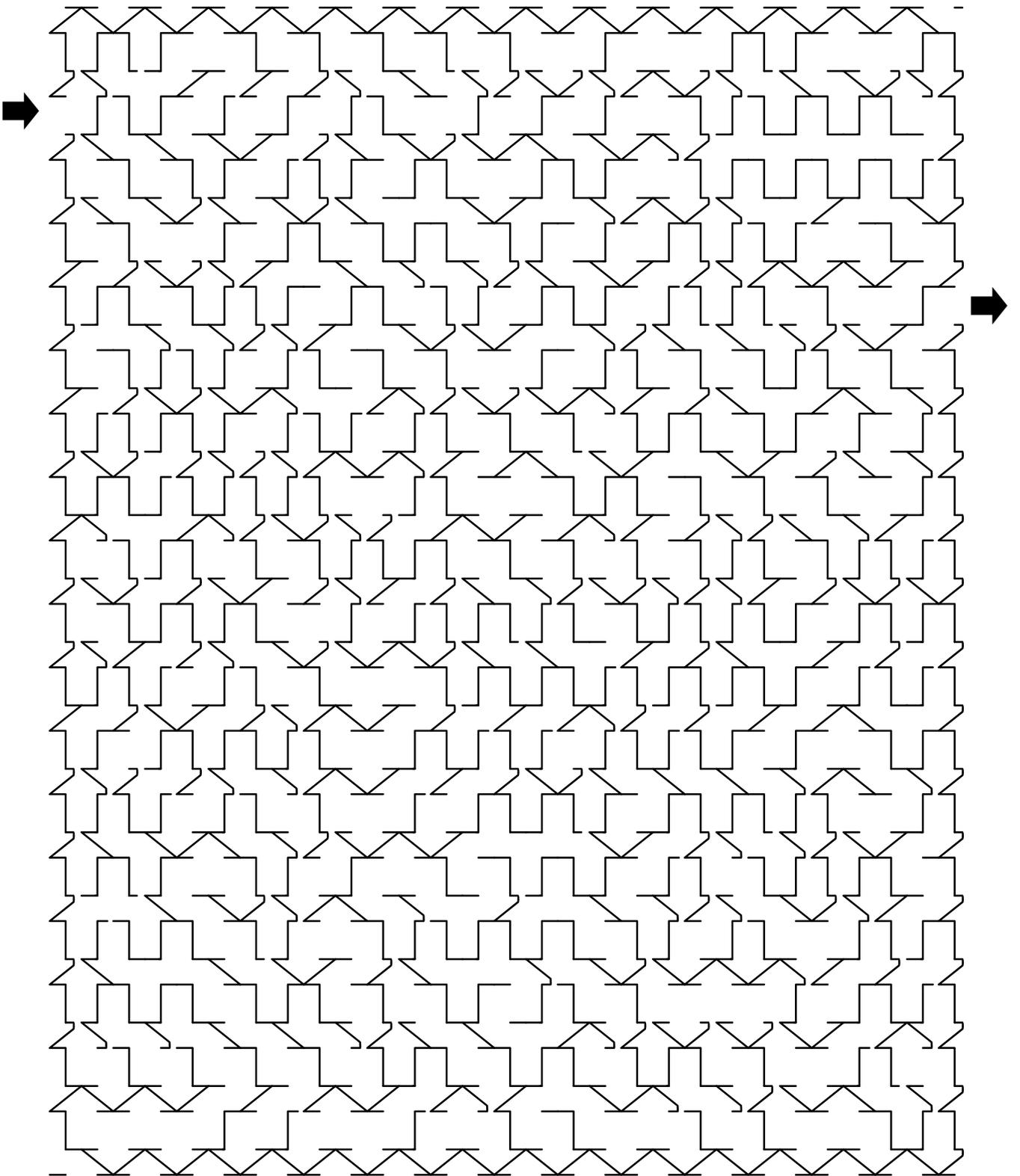
This shape and pattern were in the running for inclusion in the *Tessellating Maze* books but to include a maze made with this maze font, I would have had to correct a minor problem in the lower right corner. I had enough other options so I chose to omit the pattern and thus did not need to fix that little mistake.



The maze above does not have a tessellation pattern but it is based on a shape that tessellates. That shape is a jigsaw puzzle piece. The piece must alternate between rotated and not rotated to form the tessellation pattern. Often tessellation shapes make interesting mazes when they are not fit together properly, and here I finally had a chance to make a maze in this way.



Included in the *Tessellating Mazes* books are cars and airplanes that tessellate. Above are boats that tessellate. However, they do not make very good mazes because the opening on the top is very small, and for that reason this pattern did not make the final cut.



These simple arrows make a very nice tessellation pattern but this attempt to use them in a maze failed. The connections up and down were too small and barely visible. Fortunately there are better ways to use this pattern to make mazes and at least two are included in the *Tessellating Mazes* books.

CreateSpace: *A Cornucopia of Mazes: Stars, Tilings, and Patterns*

When I abandoned maze making in the 1990s, I had proposals and special maze fonts prepared for a book of visually-interesting patterns, including star patterns. After doing *Tantalizing Tessellating Mazes*, which was intended for children, I wanted to do something similar for adults, so I turned back to the old proposals. Because the book ended up being much longer than anything I had envisioned in the 1990s, I wanted a name that suggested its size, and hence the title *A Cornucopia of Mazes: Stars, Tilings, and Patterns*. It contains 84 mazes plus solutions.

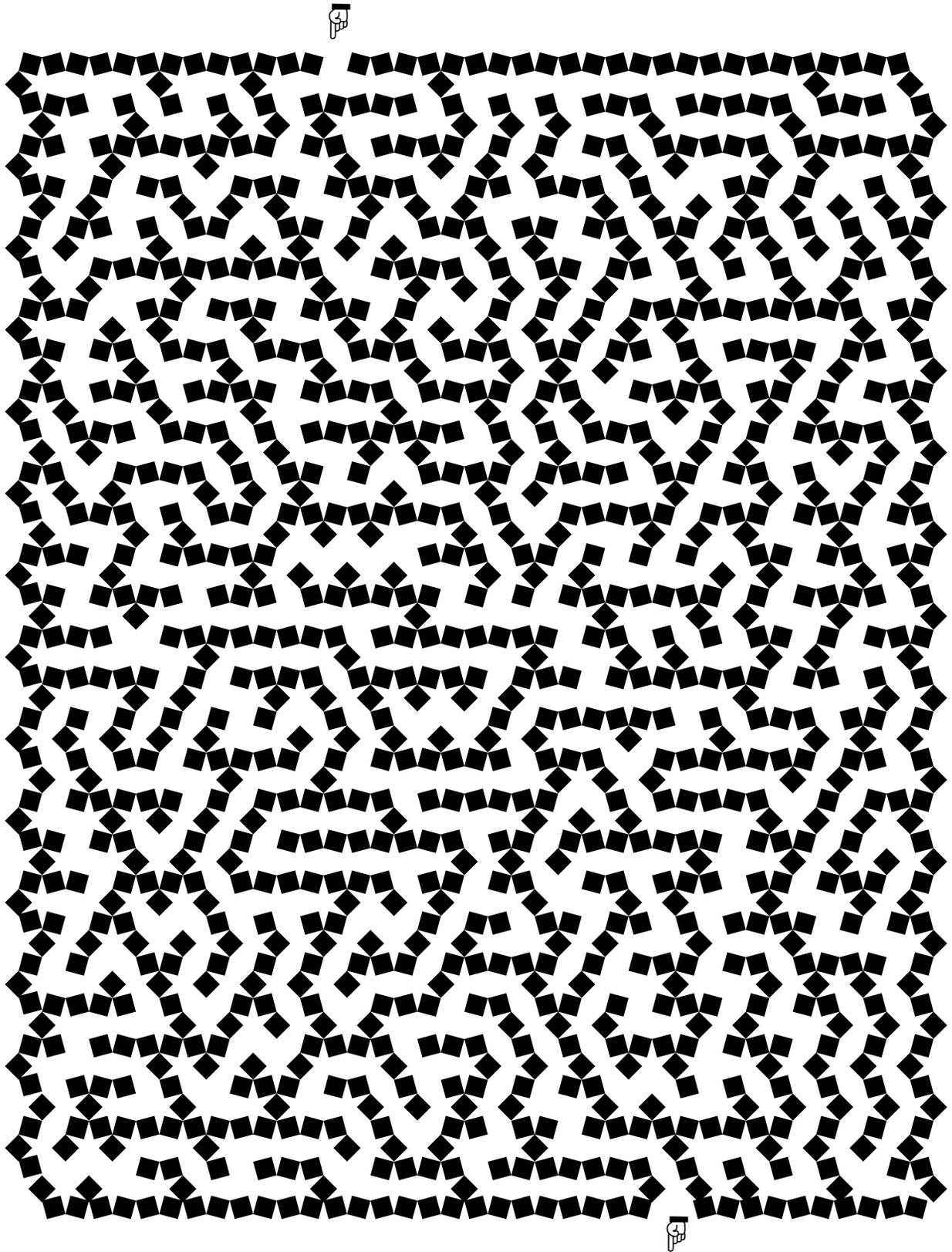
Cornucopia, like *Gaul*, is divided into three parts. Pages 4 to 28 have mazes based on star patterns, from three-pointed stars to twelve-pointed stars. The two mazes on pages 18 and 19 give some idea of what these mazes look like. Pages 28 to 54 have tilings or

tessellations patterns of mostly abstract geometrical shapes rather than of shapes that resemble real-world objects. Pages 55 to 87 have a variety of other patterns, many of them formed by interlocking circles, triangles or rectangles, or that suggest some kind of weave.

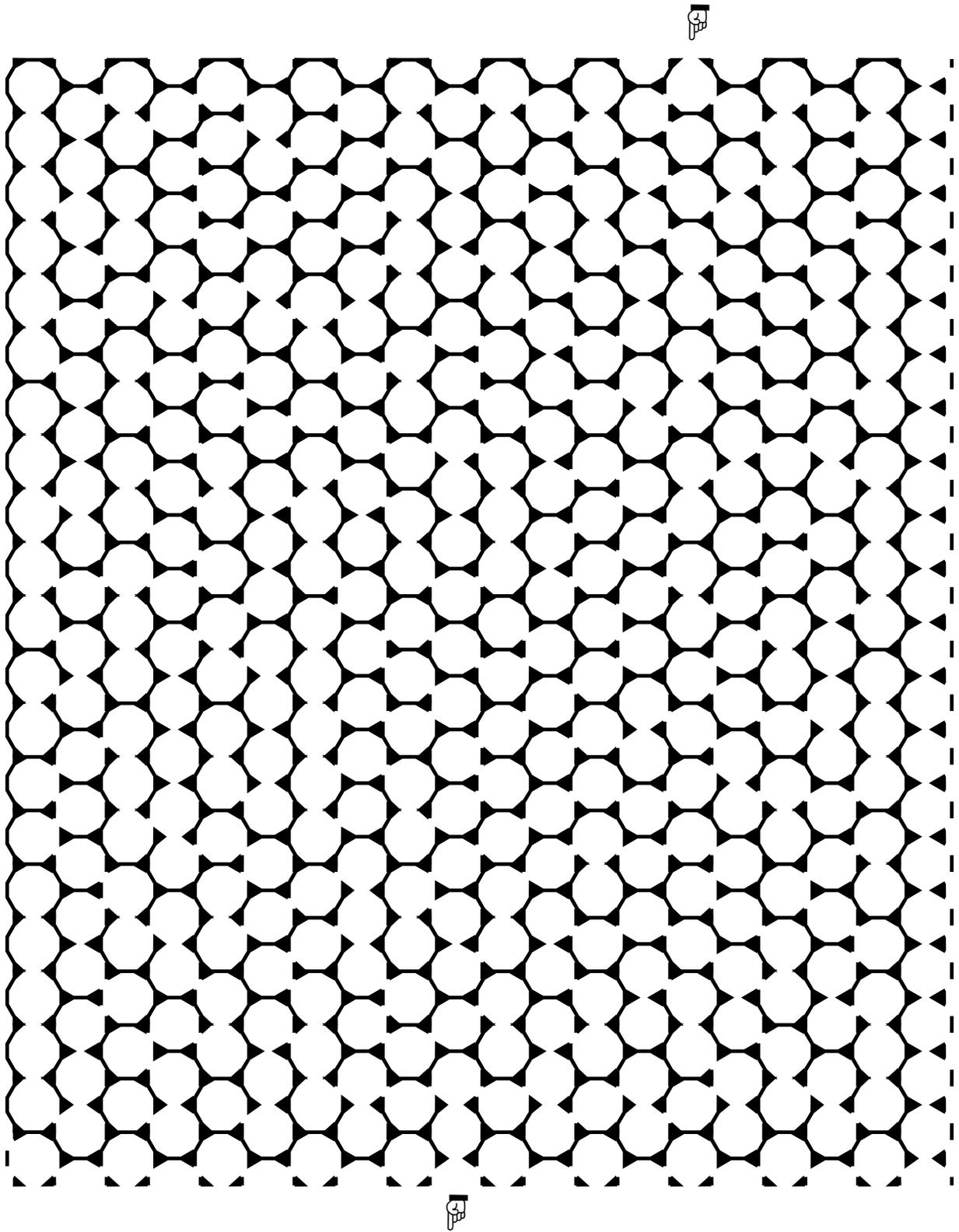
For more information see:

<http://ingrimayne.com/mazes/cornucopia.htm>

PS Why should anyone buy a book of mazes when there are free printable mazes available on the Internet? It actually might be as cheap to buy the book as to print the mazes if you are using an ink-jet printer. The cost of just the ink for most printers is over five cents a page. Printing free mazes may be more expensive than most people realize.



The *Cornucopia* book used a pattern similar to the one above but with hollow squares. The filled squares makes the path easier to follow, which is why this maze font was omitted from the final result.



The *Cornucopia* book uses about two dozen star patterns. The one above was cut because there were several others that had a similar appearance.

CreateSpace: *Easy Alphabet Mazes* & *Amusing Alphabet Mazes*

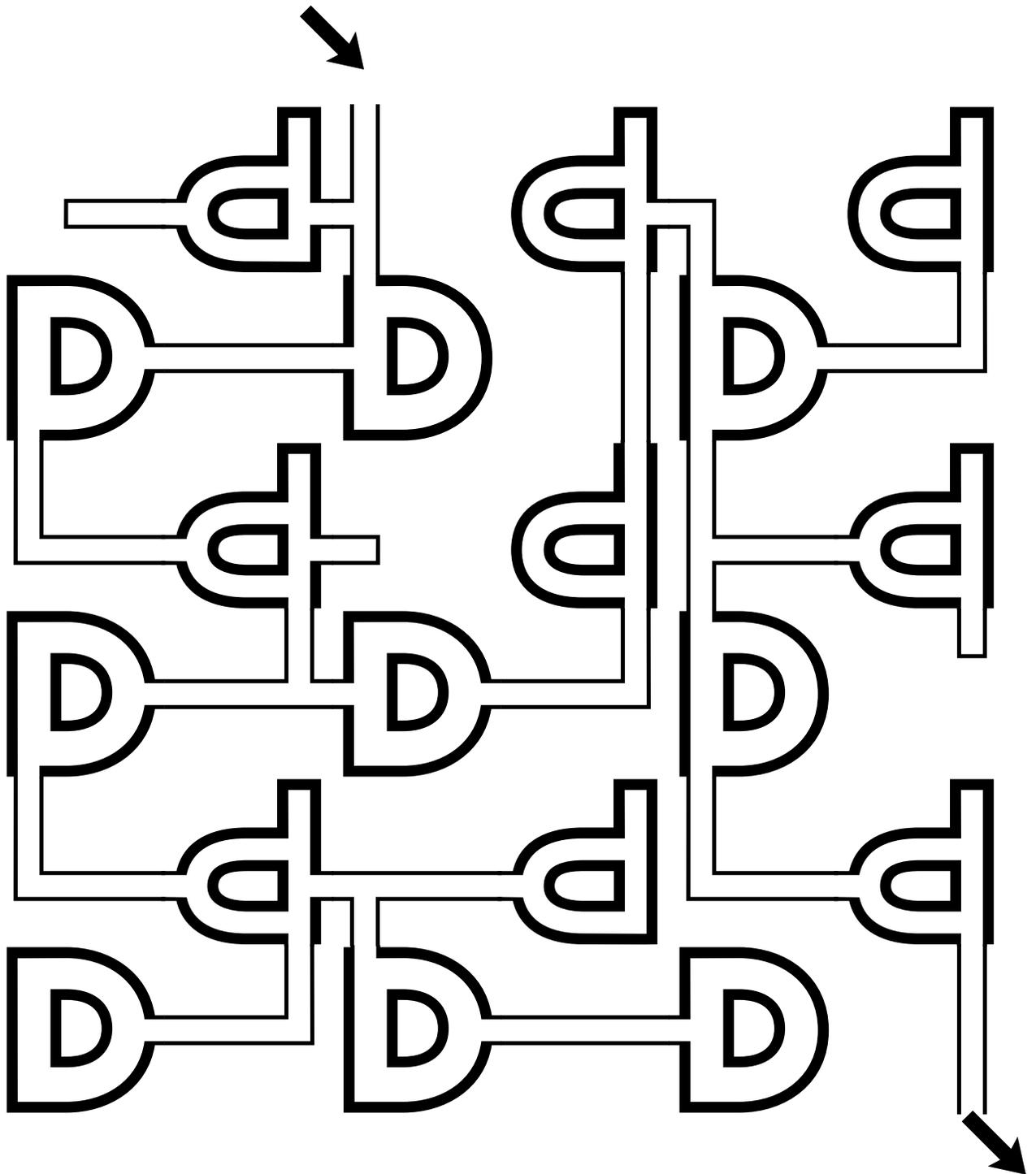
Easy Alphabet Mazes was the first book of mazes that I completed using CreateSpace, Amazon's print-on-demand publishing arm. I thought there might be an audience for a maze book about letters appropriate for pre-school and Kindergarten children. Although the mazes are trivially easy, the book took a while to organize because I began with the Dover model of a book with 36 mazes with solutions and found that it would not work well with the CreateSpace pricing structure. (You can read more about this at <http://ingrimayne.com/mazes/publishing3.htm>.) Because the mazes are so simple, no solutions are provided.

The goal of *Amusing Alphabet Mazes* was to reuse the designs in *Easy Alphabet Mazes* for an older audience. Generating mazes with my maze construction set is trivial but designing the special typefaces to display them is not. Each can take several hours to complete. Most of the special typefaces did find their way into the book, but I also had to design many more.

Of all my maze books, *Amusing Alphabet Mazes* has the most diversity of maze difficulty, maze type, and maze shape. The mazes range in difficulty from fairly simple to moderately difficult. I generate mazes based on grids of triangles, squares, hexagons, and octagons, and all are well represented in *Amusing Alphabet Mazes*. There are also about a dozen mazes with over/under passages, a simple type of 3-D maze. Finally, the first 26 mazes not only use the shape of the letter as a cell to build the maze but the maze itself is in the shape of the letter.

When I was finished, I thought I had exhausted the possibilities of making alphabet mazes. I was soon to discover that I had only scratched the surface.

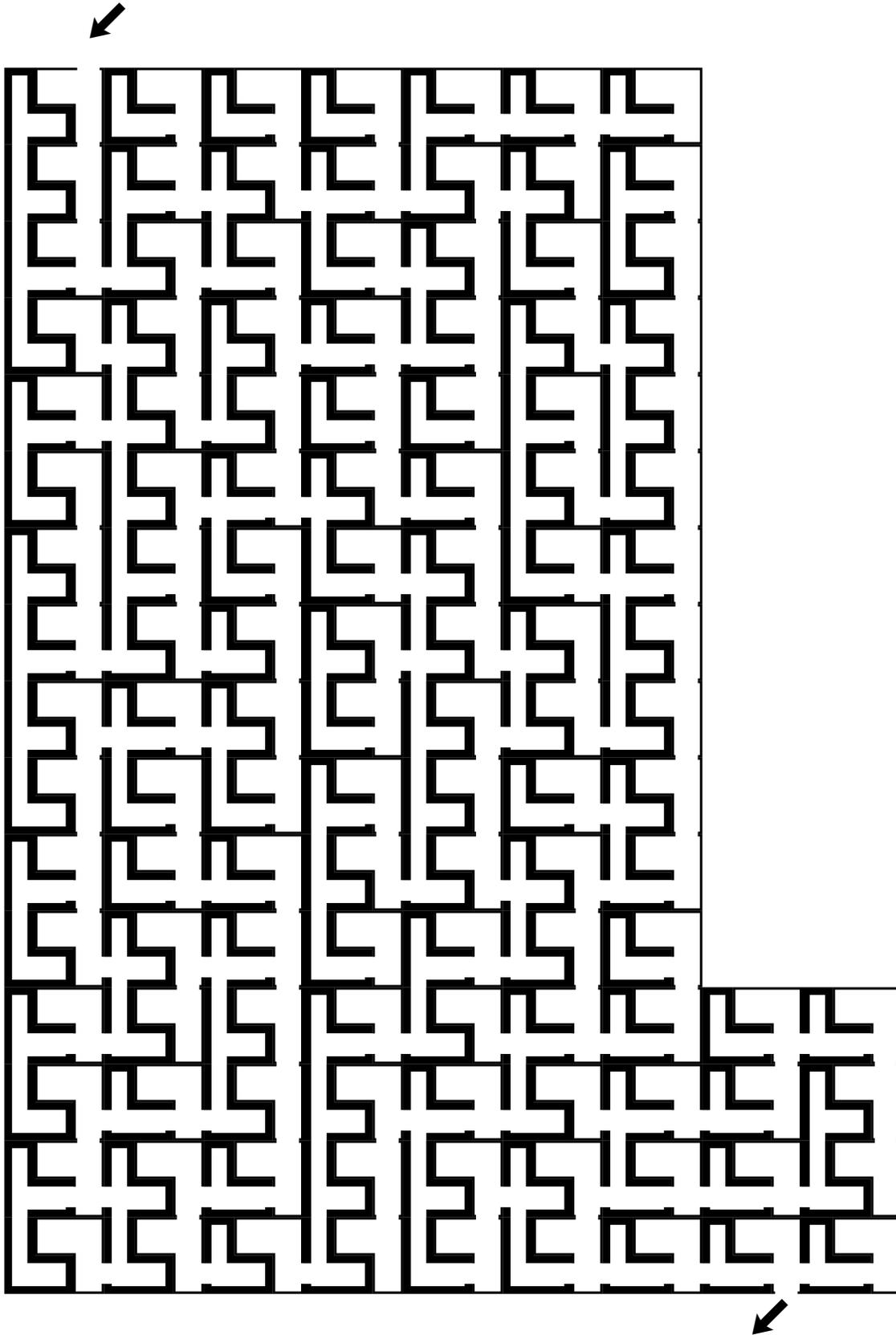
For more information see http://ingrimayne.com/mazes/easy_alphabet_mazes.htm and http://ingrimayne.com/mazes/amusing_alphabet_mazes.htm



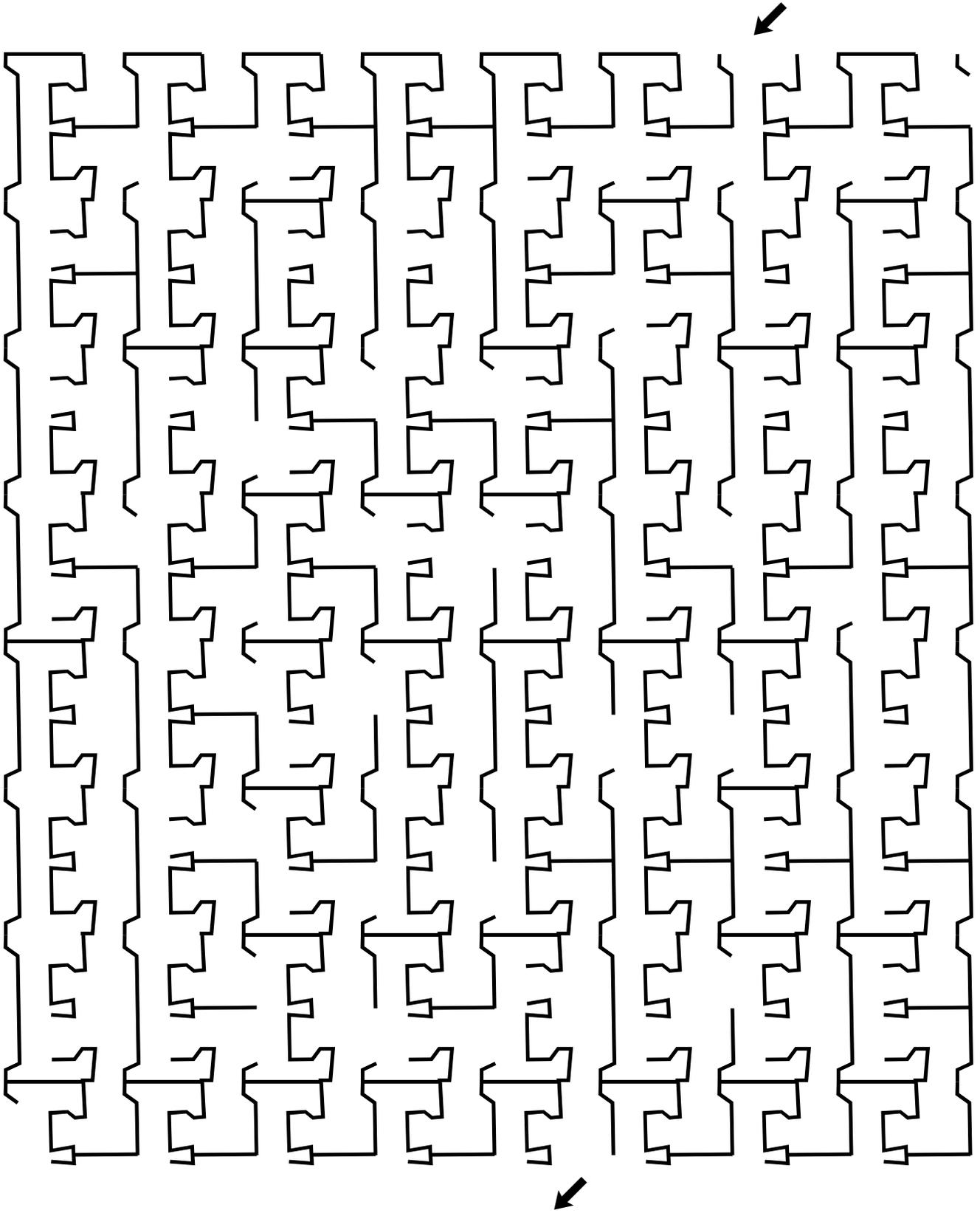
(There is no text on the pages of *Easy Alphabet Mazes*. I used the upper-case D in this typeface to make mazes, but this more complex maze font with lower-case ds just did not work out.)



(Easy Alphabet Mazes uses a pattern similar to the above for letters A, Y, and V separately. I thought a typeface that combined the A and V would be interesting. However, I did not like the final result and it was never used—until now. See the copyright page for another AVY maze.)



Here is an example of a letter maze that displays its letter in two ways, both at the cell level and in its shape. I was unsatisfied with this maze font so I redid it and this first version of the design hit the cutting room floor.



This letter E maze font was designed long before 2011, but for some reason I never used it in a letter maze book.

CreateSpace: *Puzzling Typography: Mazes with Letter Tessellations; Puzzling Typography A Sequel: Mazes with Tessellating Letters; € Tessellating Alphabet Mazes for Kids*

After two books of mazes based on letters and two based on tessellations, I began to wonder if it might be possible to do a book of mazes based on letter tessellations—letter shapes that tessellate. I had a start because I had used several tessellating letters in *Amusing Alphabet Mazes* and I had stumbled on several others in the process of designing the two *Tessellating Mazes* books, but I was not sure that a complete book was possible.

By the time I was ready to publish [*Puzzling Typography: Mazes with Letter Tessellations*](#), I not only had proven that there were enough ways to use tessellating letters to form a book of mazes, but I was confident that I could find enough more to do a [*sequel*](#).

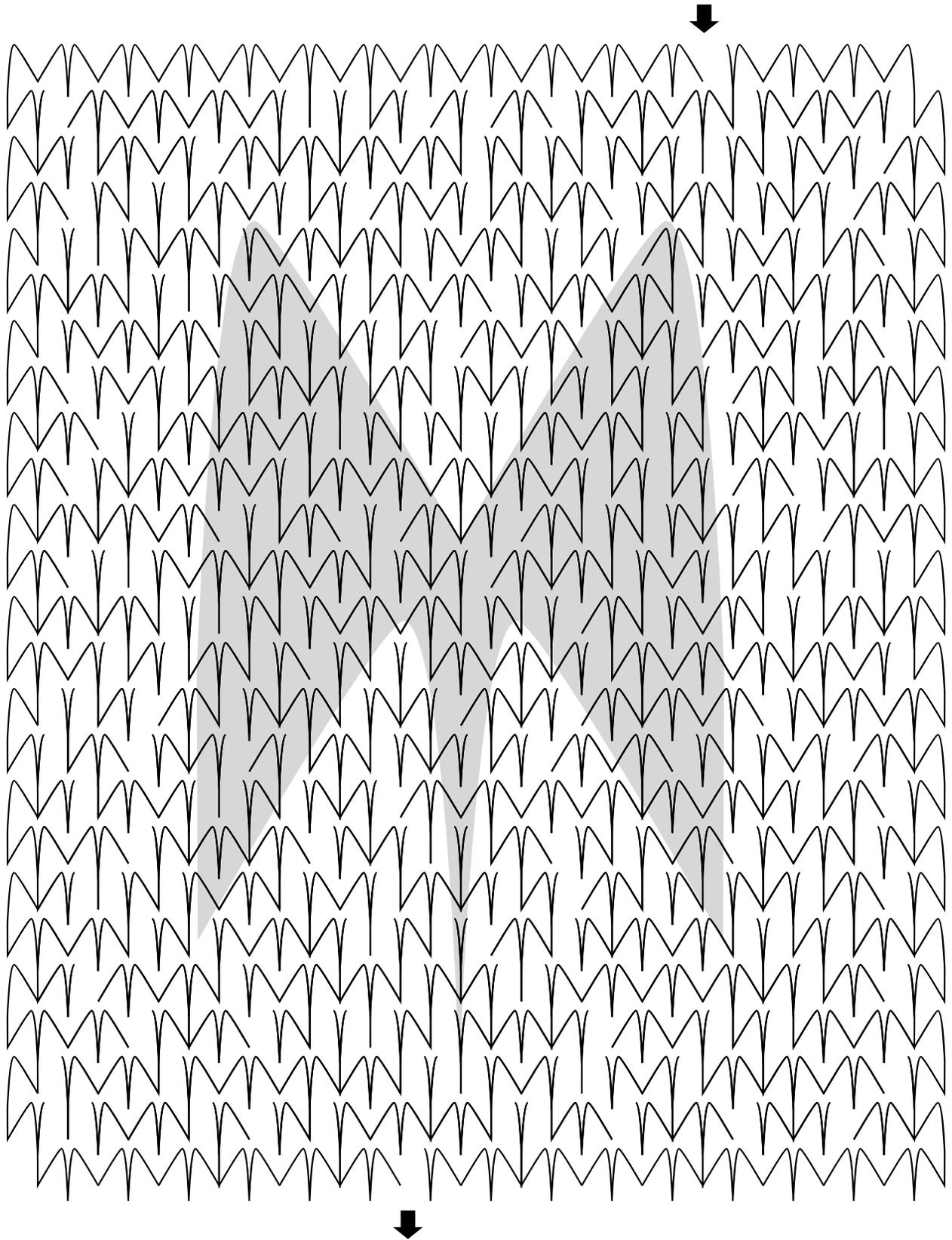
Some letters can be tessellated in many different ways. The letter L is the king of tessellating letters—there are an infinite number of ways to tessellate it, though only a finite number of those can be used to make mazes that fit on a page.

Letters K, O and R are very difficult to tessellate and any tessellation requires that the letter be distorted a bit. Each of the *Puzzling Typography* books has 84 mazes plus solutions.

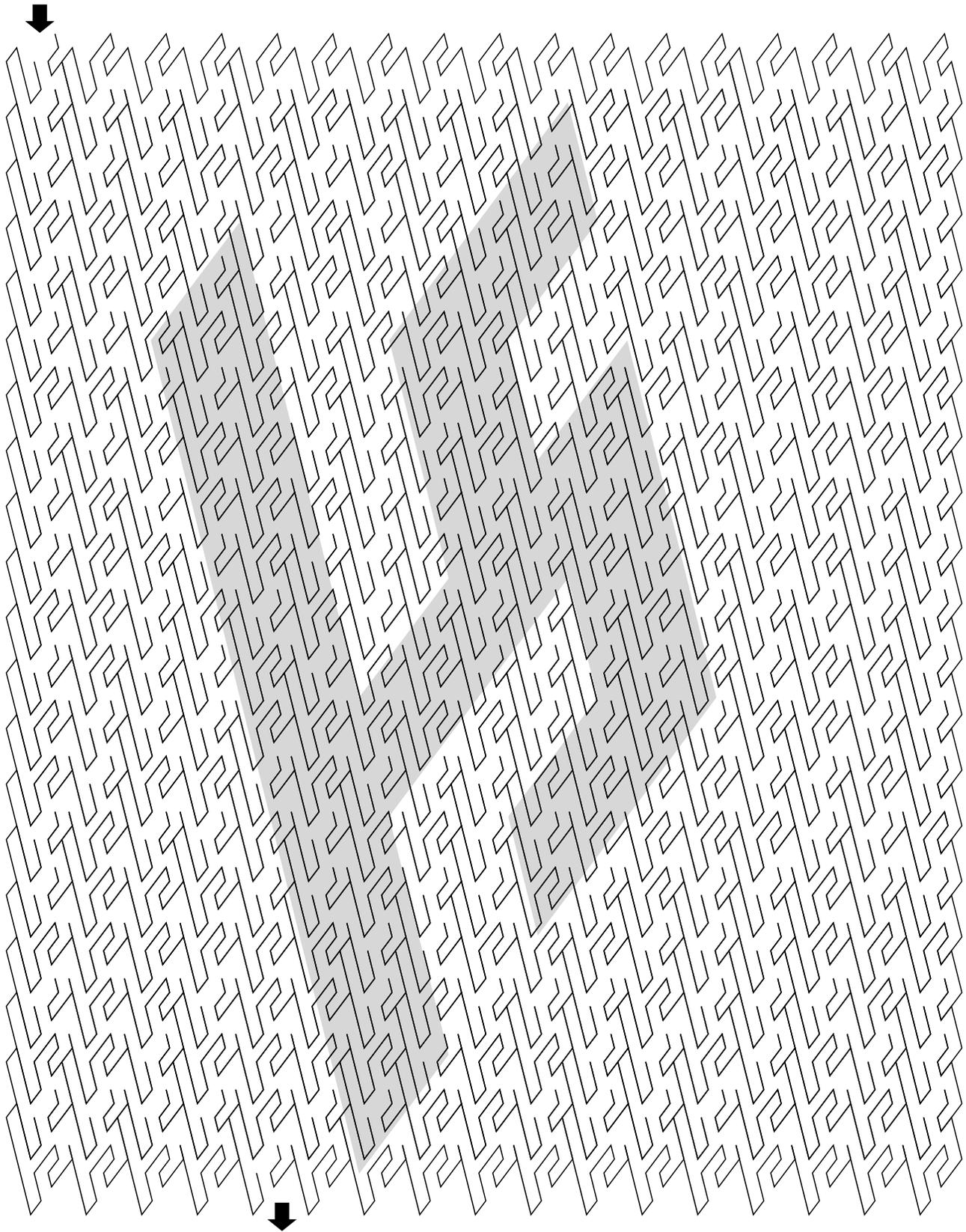
The two *Puzzling Typography* books were designed for adults. Thinking that children might also enjoy the tessellation patterns that I had assembled, I made a set of simpler mazes using many of the same maze fonts (plus adding a few more) and published it as [*Tessellating Alphabet Mazes for Kids*](#). It has over 100 mazes but no solutions.

There were two byproducts of this project, a coloring book titled [*A Tessellating Alphabet Coloring Book*](#) and a typeface family called [*Tessellations*](#) available from myfonts.com. (The typefaces used here are Tessellation fonts.)

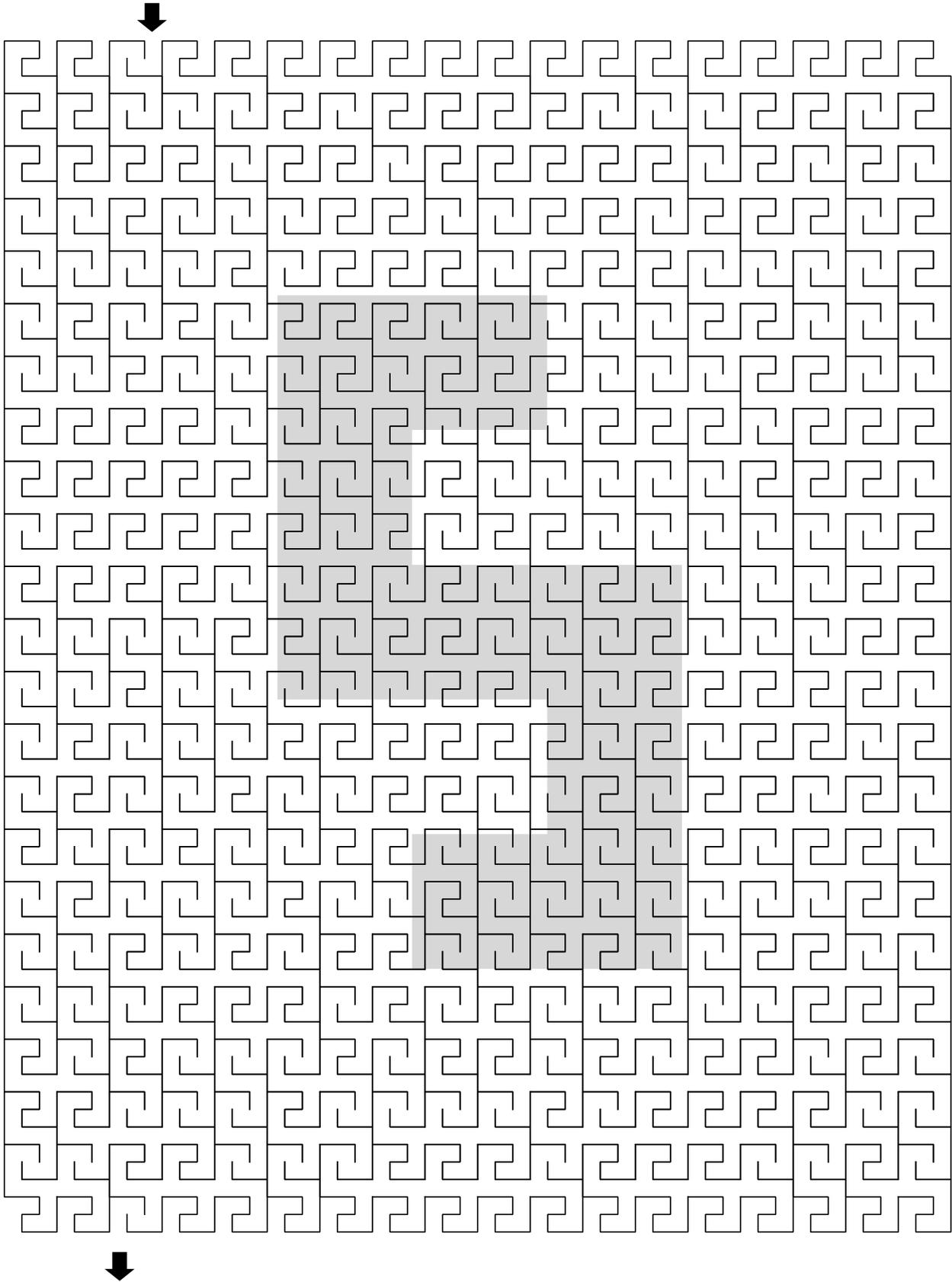
I doubt if you can find a larger collection of letter tessellation patterns in one place than the collection that these three books contain.



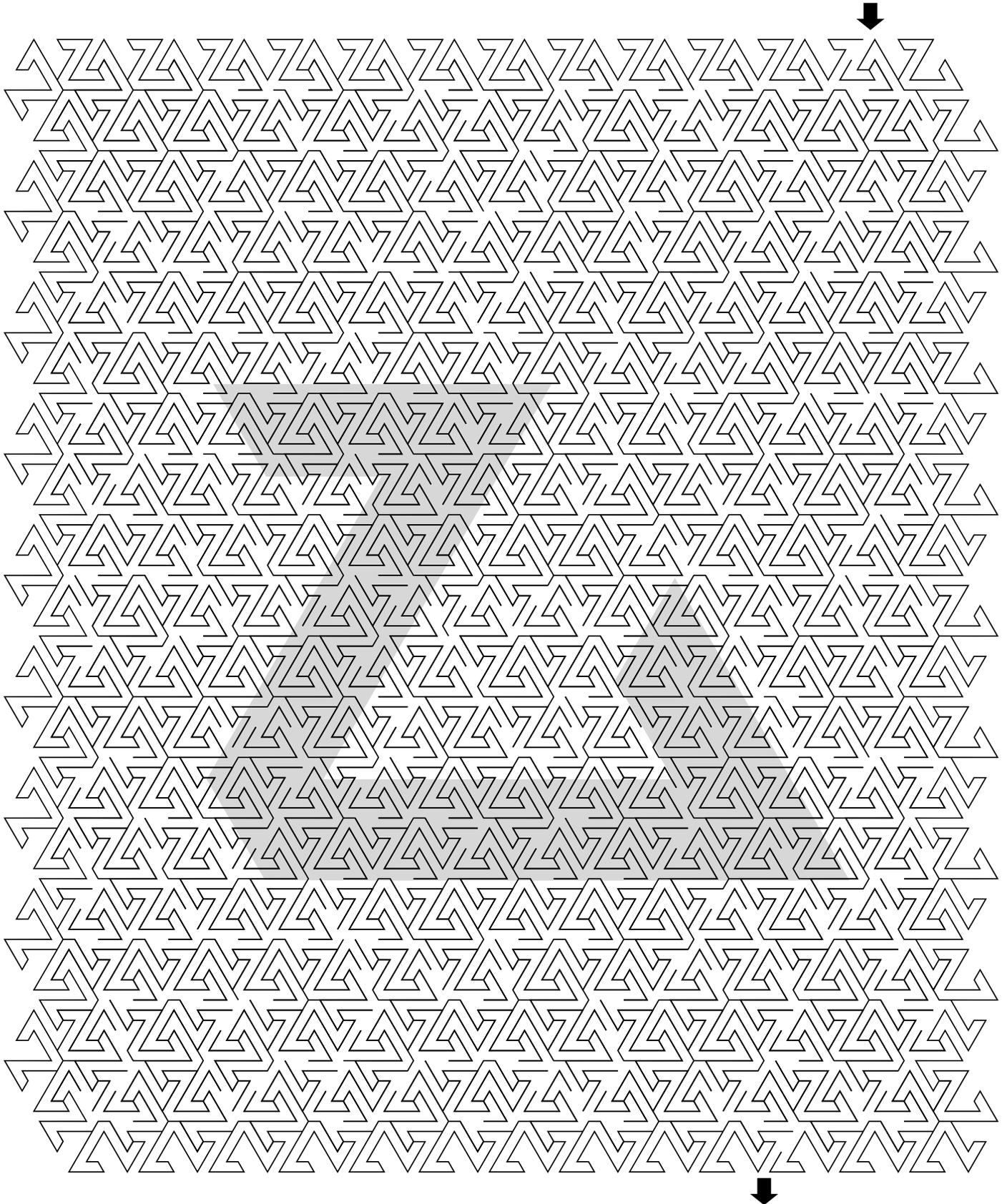
I kept trying to find a way to use this odd shape that tessellates. It resembles the letter M, but I always found shapes that worked better than this one.



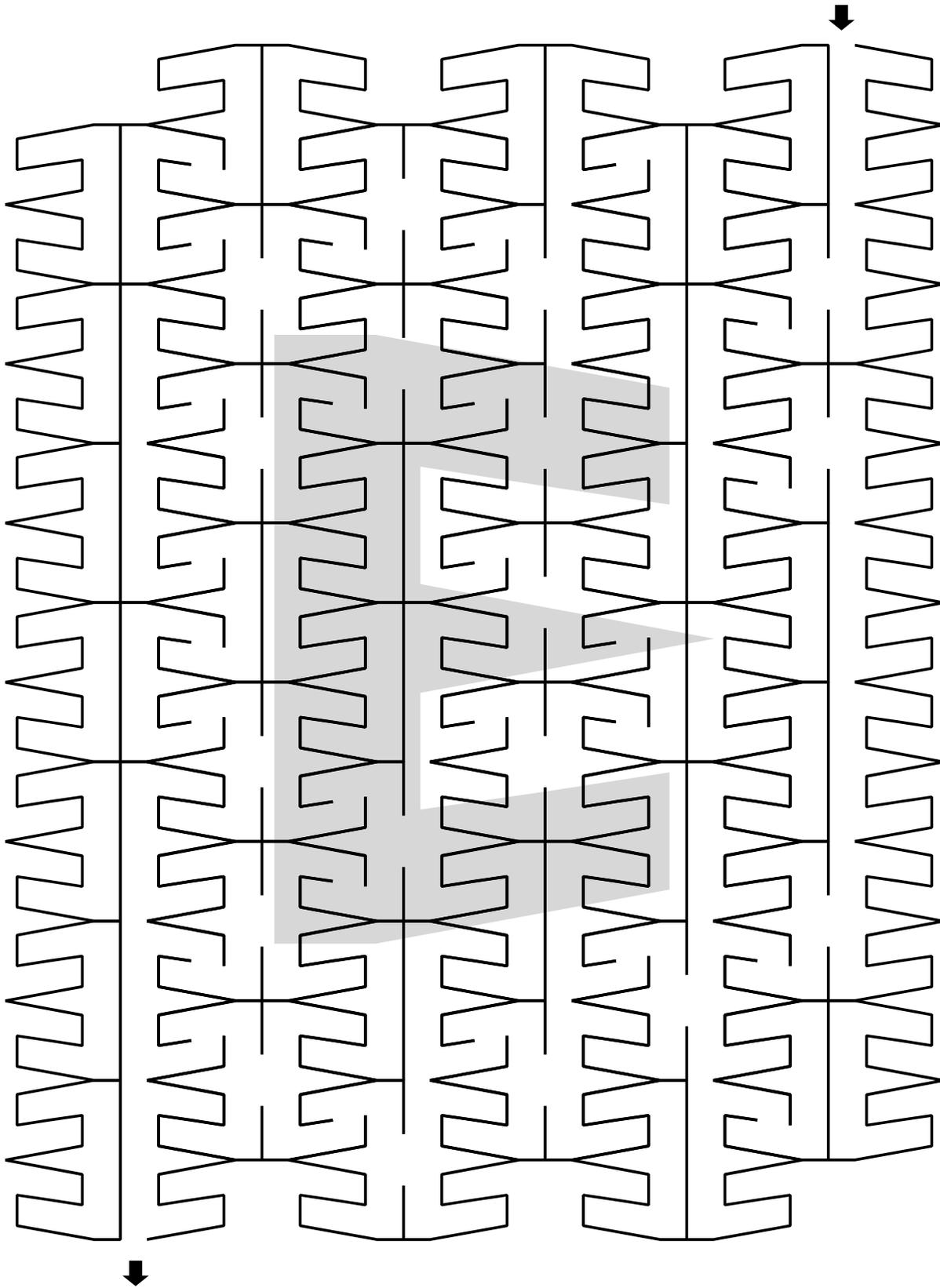
Here is a tessellation based on the lower-case letter K from Scott Kim, who pops up when you search for tessellating alphabet on the Internet. Even before it is rotated and skewed to make it fit my maze construction set, it is not a very convincing letter k. I decided not to use it.



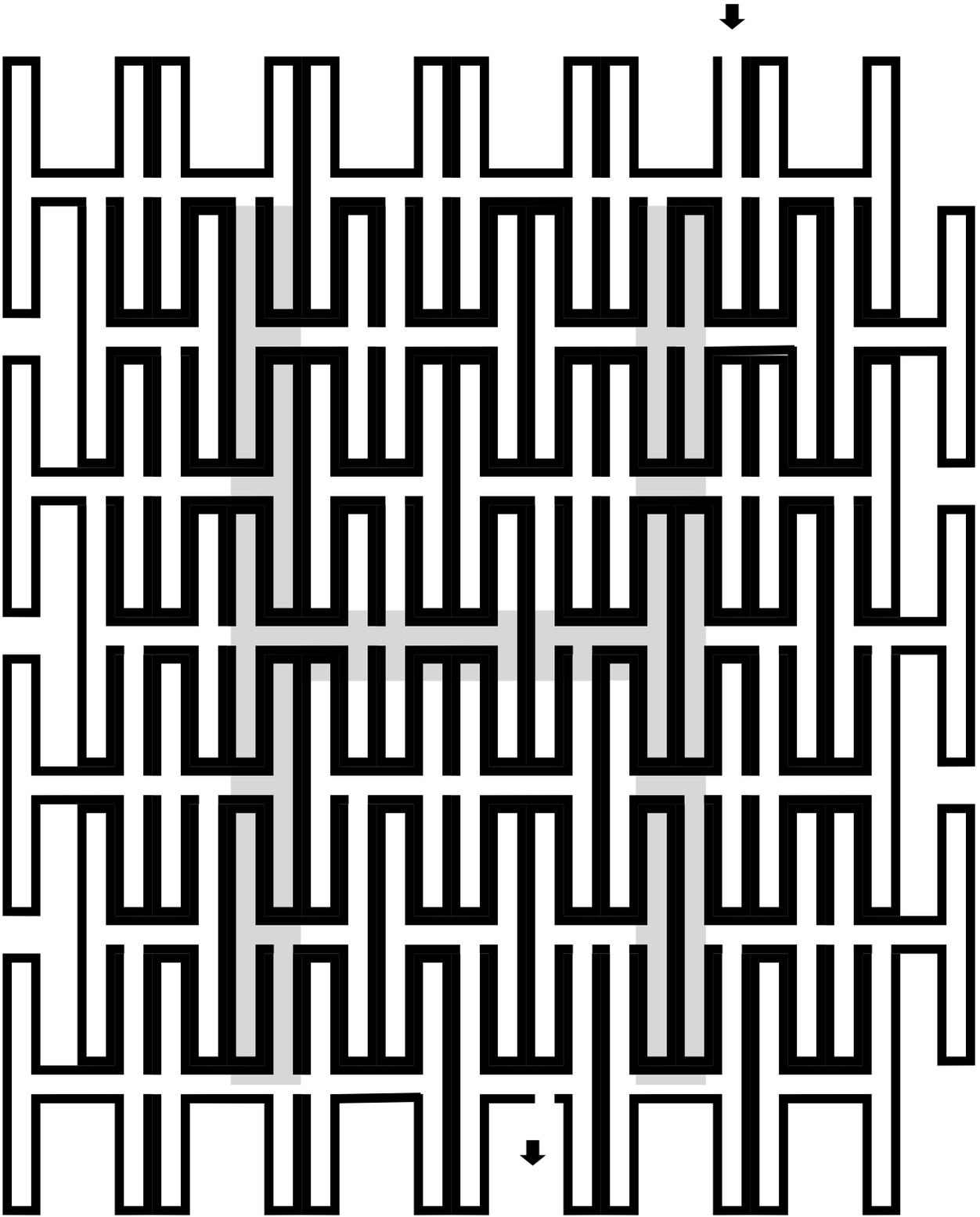
A crude but simple letter S is not only easy to tessellate, but it also forms a nice grid. However, I found that widening the shape made it more convincing, so this narrower version hit the cutting room floor.



In the second *Puzzling Typography* book I wanted to have at least one maze for each letter of the alphabet. I had used several different patterns for the letter Z in the first book and the maze above was in place to represent Z in the second book. The book was ready to be published when I discovered another way to tessellate the Z shape and was happy to be able to drop this maze from the collection.



(There is no text on the pages of *Tessellating Alphabet Mazes for Kids*. A design similar to this but with the backs of the letter Es staggered was used in one of the *Puzzling Typography* books, but this particular typeface was never used.)



(This way of tessellating the letter H was used in *Tessellating Alphabet Mazes for Kids*, but with a different maze font that had a thinner outline and a thicker interior. The H was wider and shorter.)

CreateSpace: *Hidden-Path Mazes: Decode to Solve*

At the end of 2012 I was done designing maze books, or so I thought, and I began to work on this promotional publication. However, I as considered two mazes to represent *Maze Madness* (not the ones on pages 7 and 8), I began to wonder if, now that I was less concerned about sales, I should restart a line of maze development that I had largely abandoned after *Maze Madness*. That book had several mazes in which the passages were hidden so that finding the paths was the main challenge in solving the maze. What other kinds of mazes could I design that would have this characteristic?

The result was *Hidden-Path Mazes*. As I worked on it, I found that the mazes I was constructing fell into one of three groups. In some cases the maze was made of elements that had a similar appearance but only some of the elements were path while the others were border. The second maze included below is an example of this group. In a second type of maze, one could pass from cell to cell only if a condition held.

For example, blocks of letters might separate cells, and passage would be allowed only if the letter was in the phrase, "Hidden Paths." The maze on the next page is a weak example of this type of maze. A final type is based on how my computer programs keep track of the maze as it is generated. Each cell has a number that tells how it is related to neighboring cells. If the computer program can decode that number, so can a human.

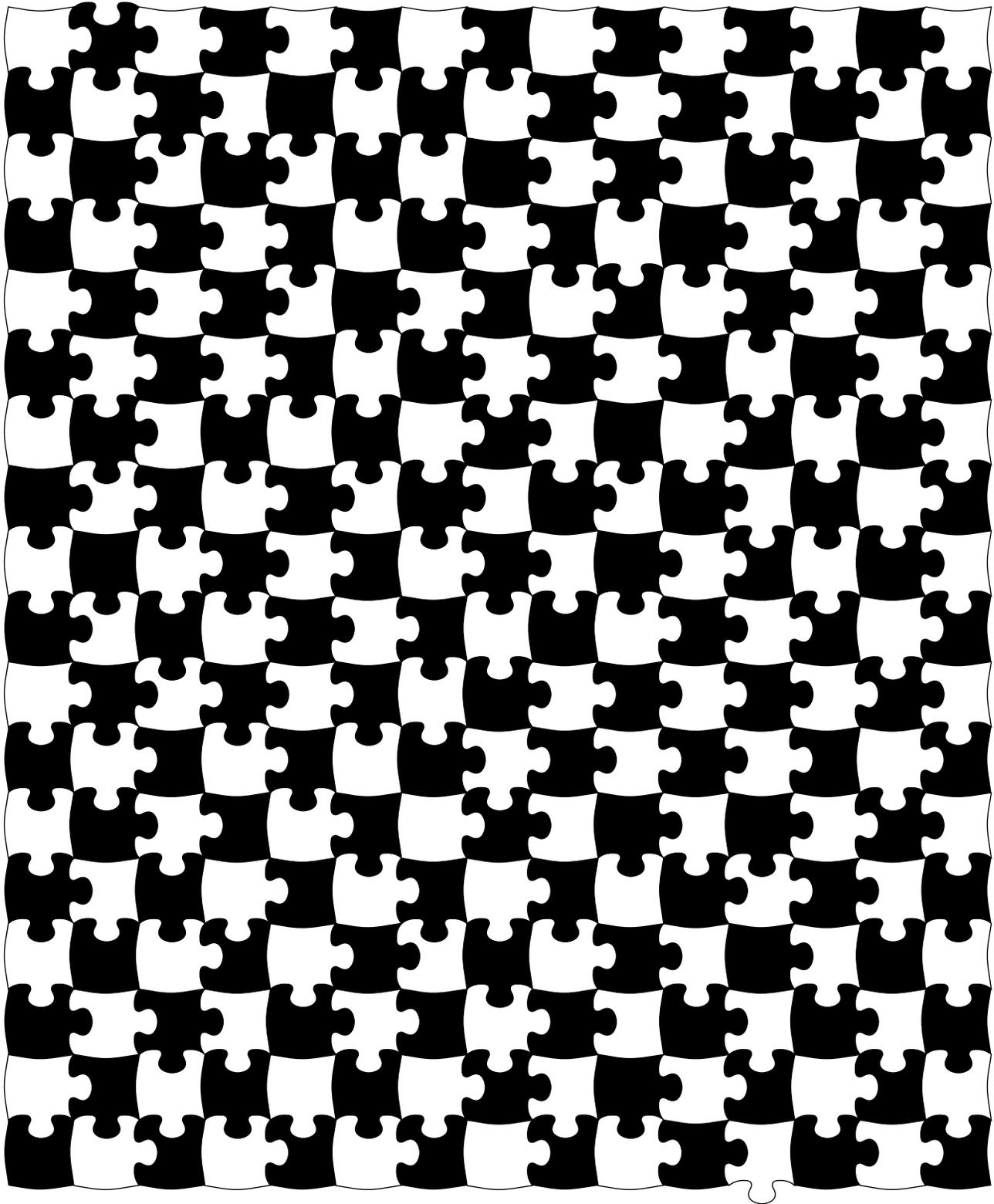
HiddenPath Mazes is unlike any of my previous maze books—it is a puzzle book posing as a maze book. Solving the mazes once they are revealed is easy. The challenge is to decode the maze. As a result, the solutions section shows the complete paths of the mazes not just the correct path.

For more information see

<http://ingrimayne.com/mazes/hidden-path.htm>

and

<http://mazepuzzles.blogspot.com/2013/02/really-this-is-maze.html>



Jigsaw Puzzle Maze

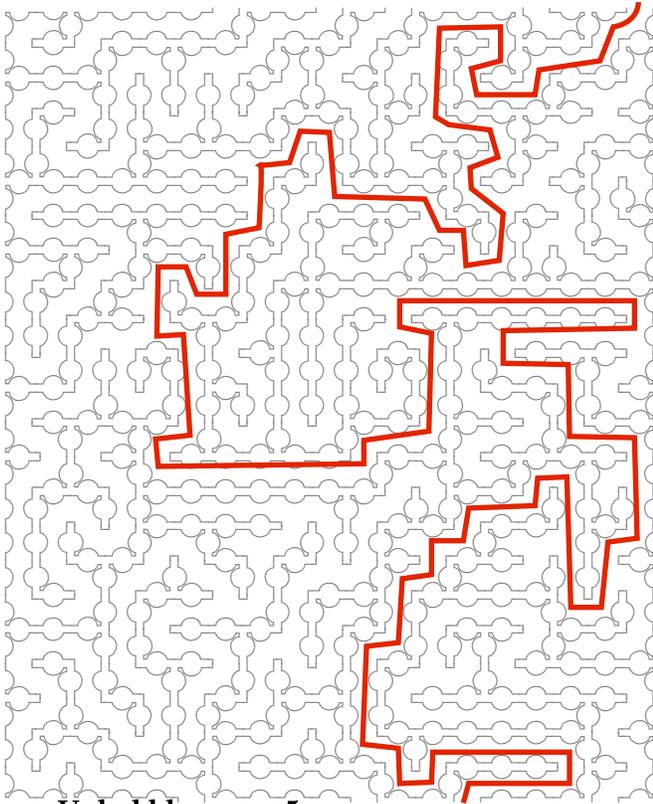
In this puzzle you can move from piece to piece only on the sides where the pieces interlock. *Hidden-Path Mazes* has several similar puzzles, but without the checker-board effect.



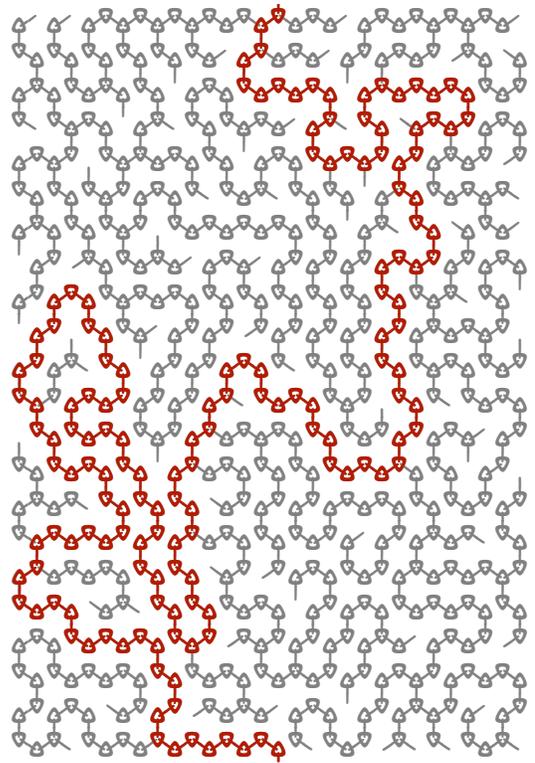
Serif and Sans Serif

Some typefaces have letters that have serifs while others are sans serif, that is, without serifs. In this maze the path is made up of letters with serifs. The letters without are the walls. Find an entrance at the top and exit at the bottom. (Not everyone is as interested in typography as I am. This was a little too exotic.)

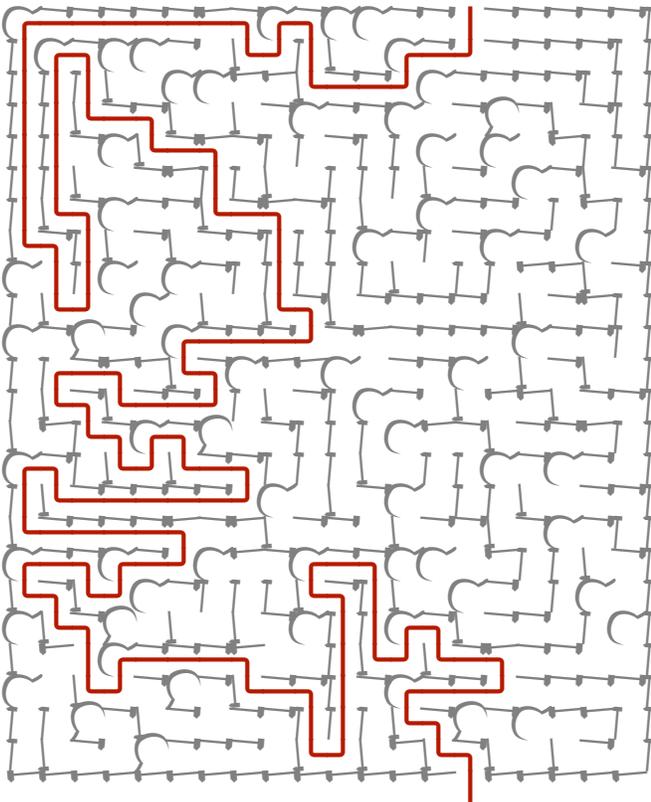




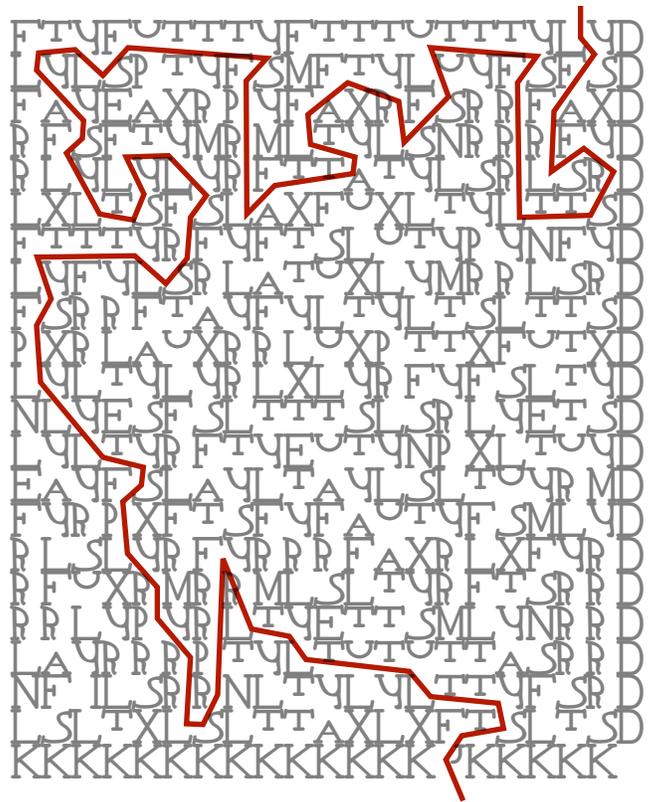
Unbubble, page 5



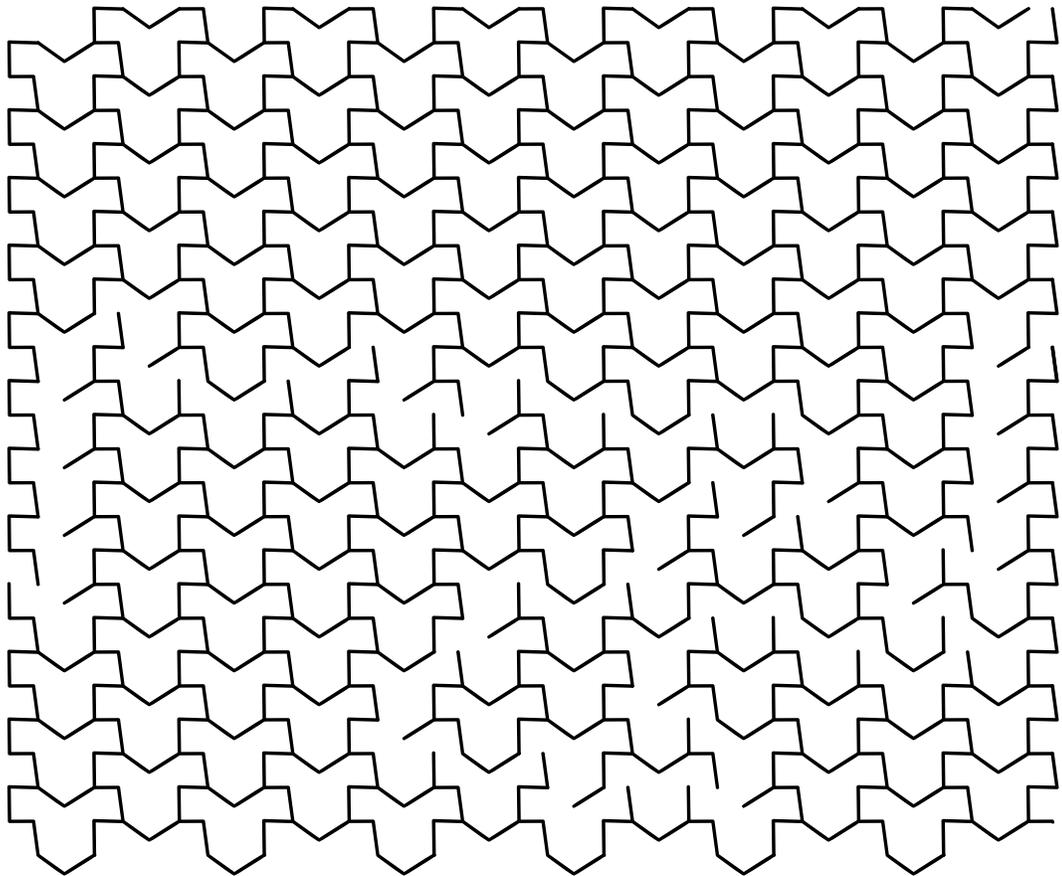
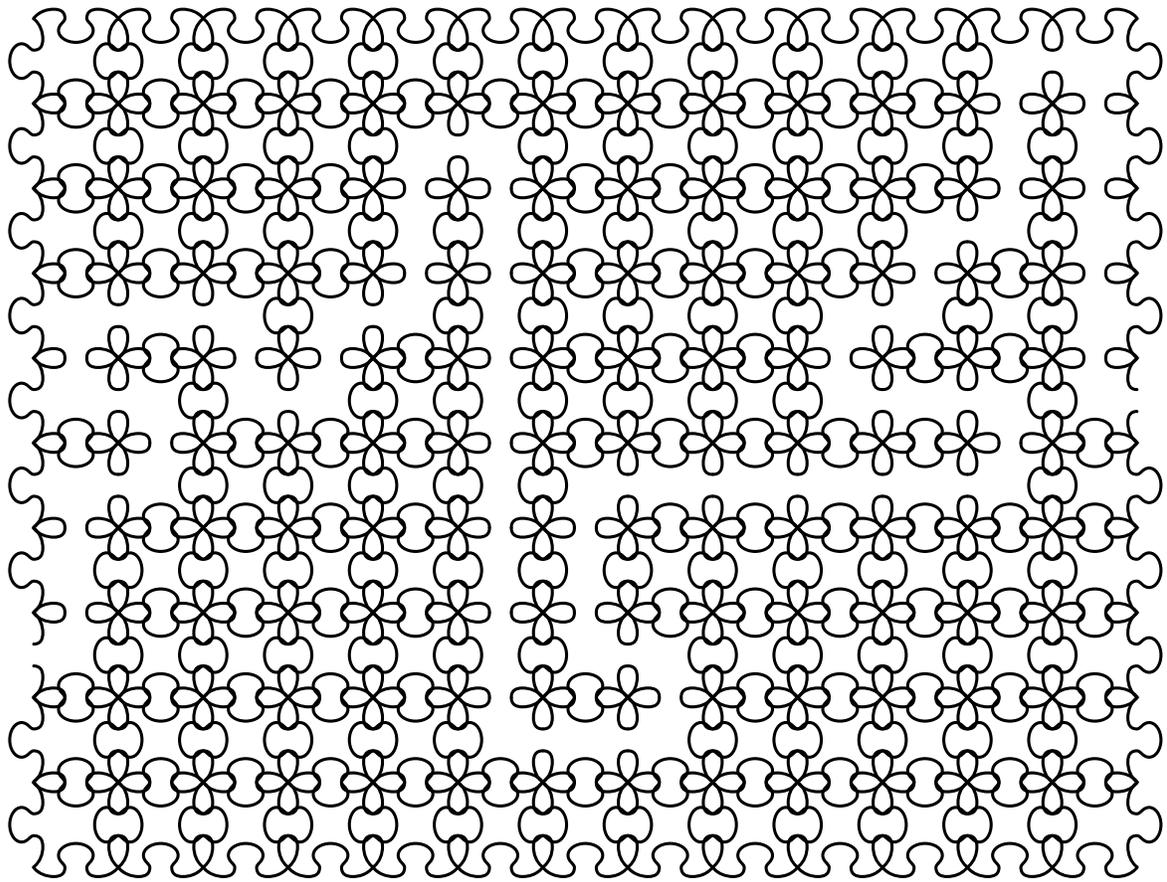
Alice Enchained Two, page 6

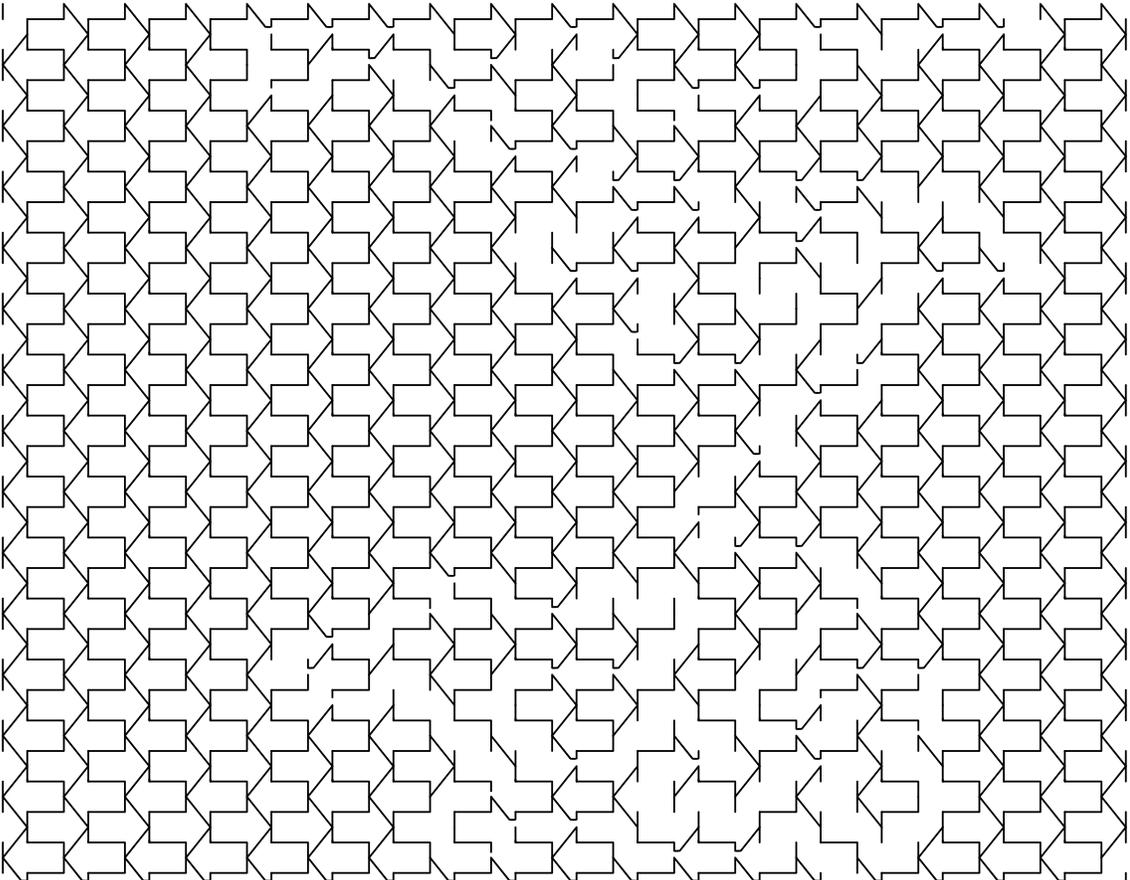
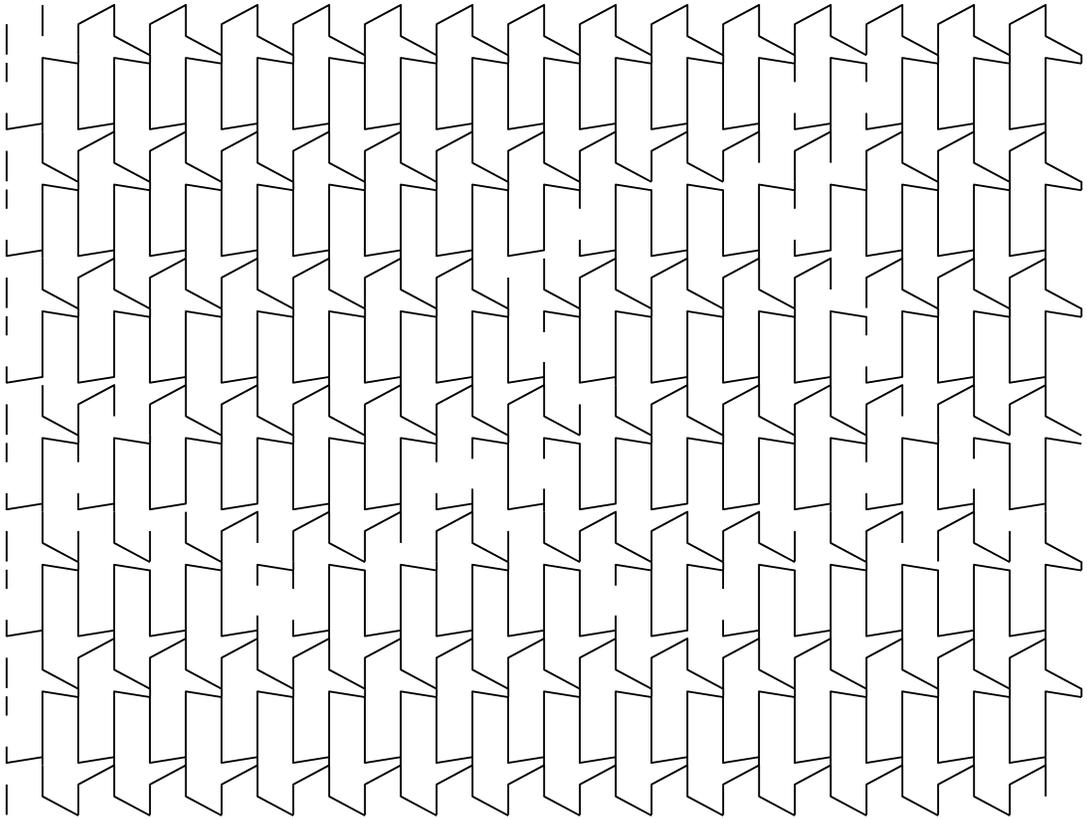


Economic Mysteries, page 7

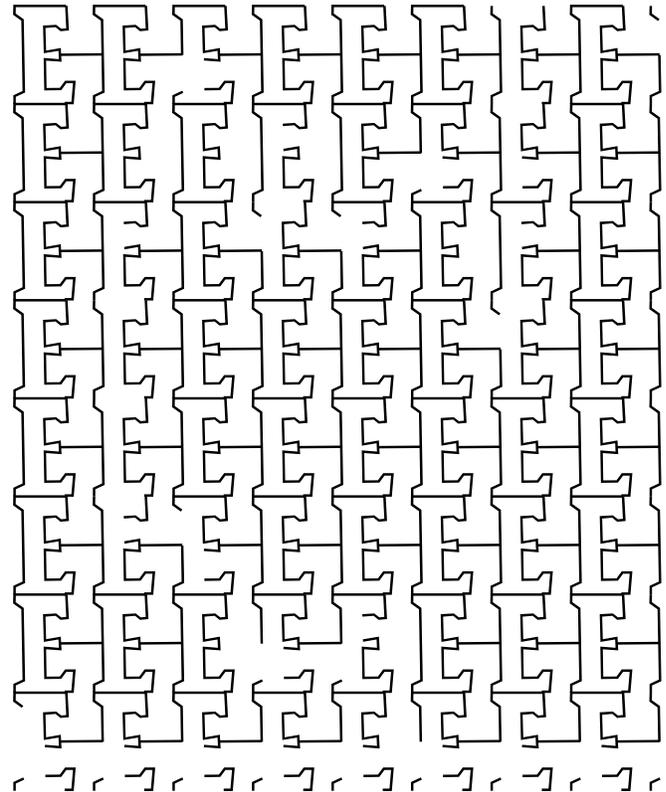
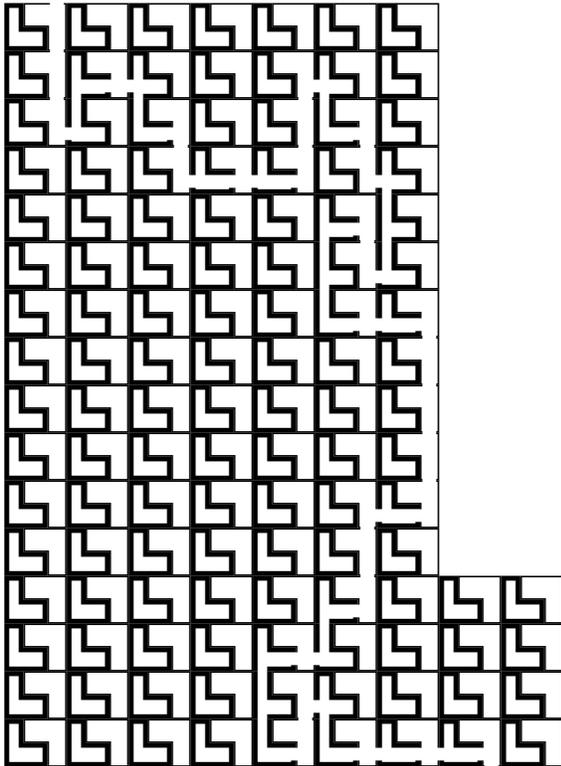
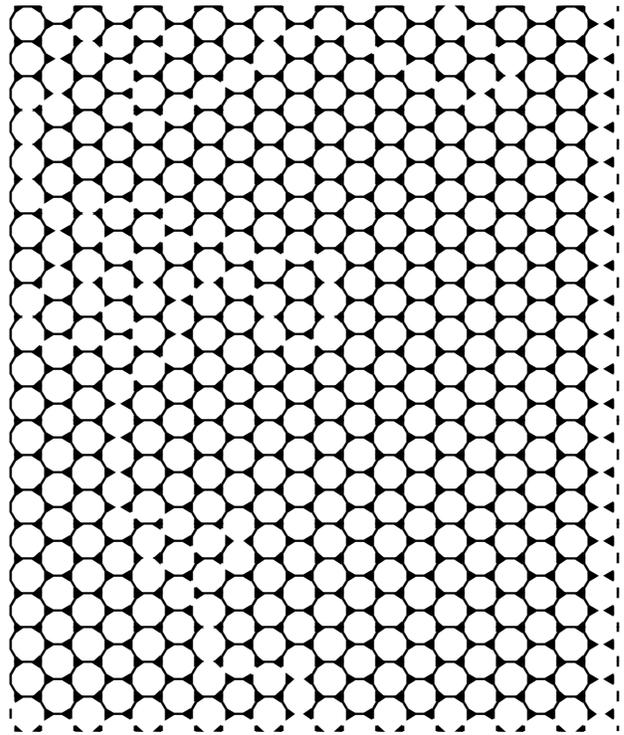
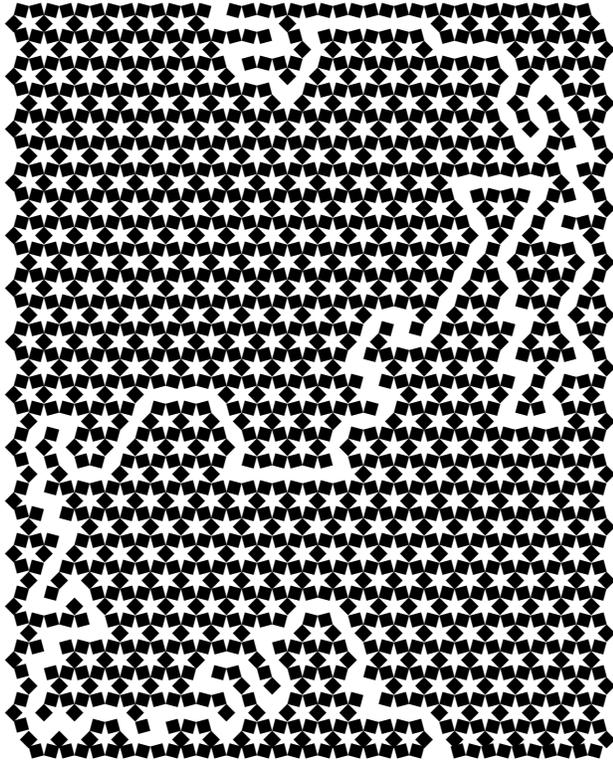


Word and Letter Puzzles, page 8

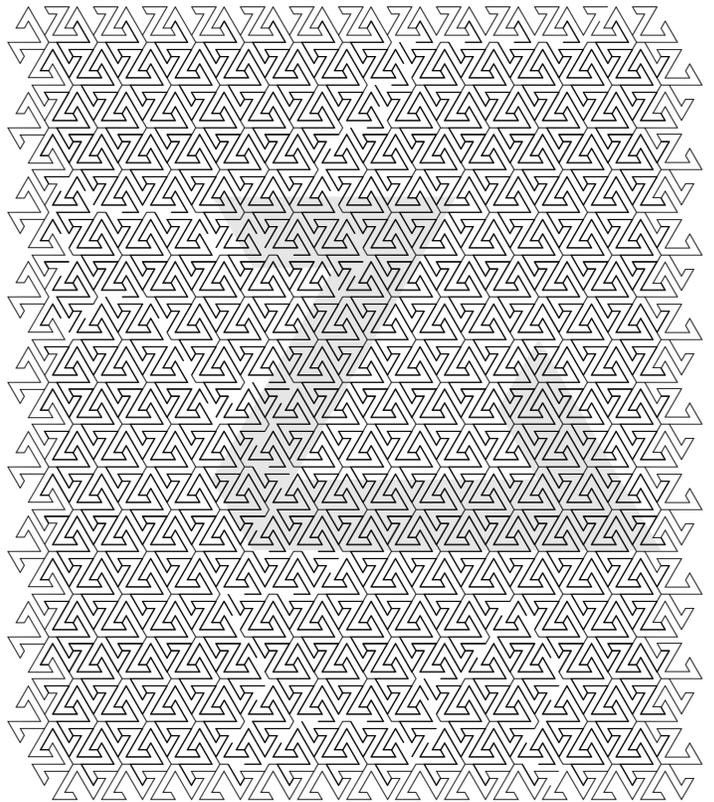
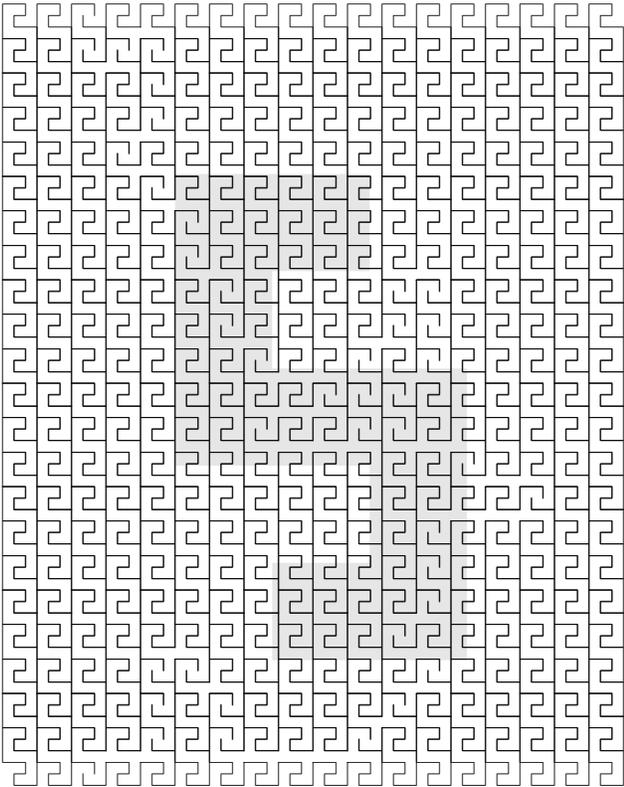
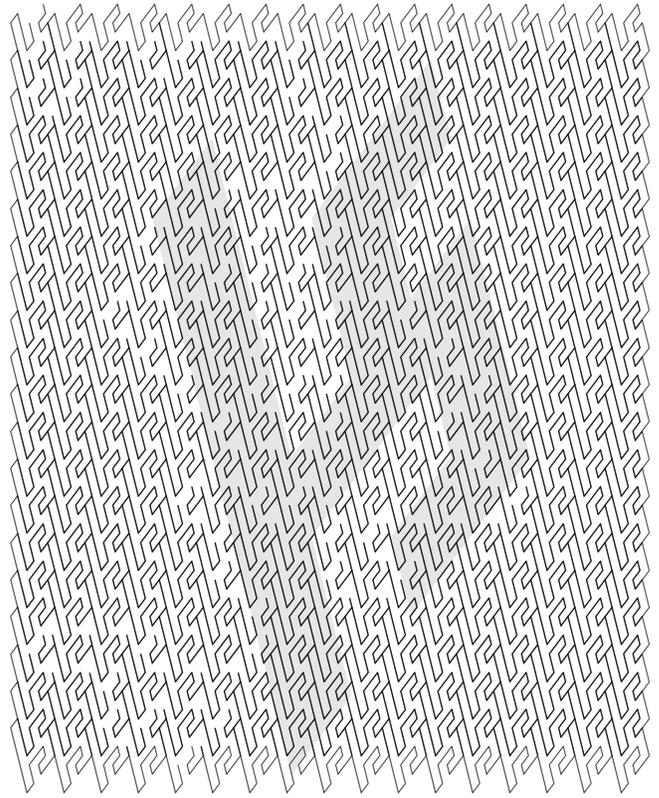
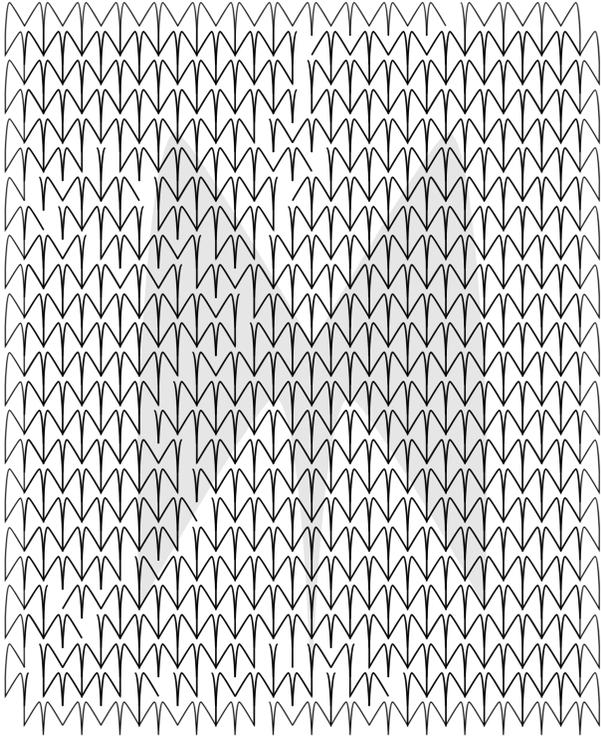


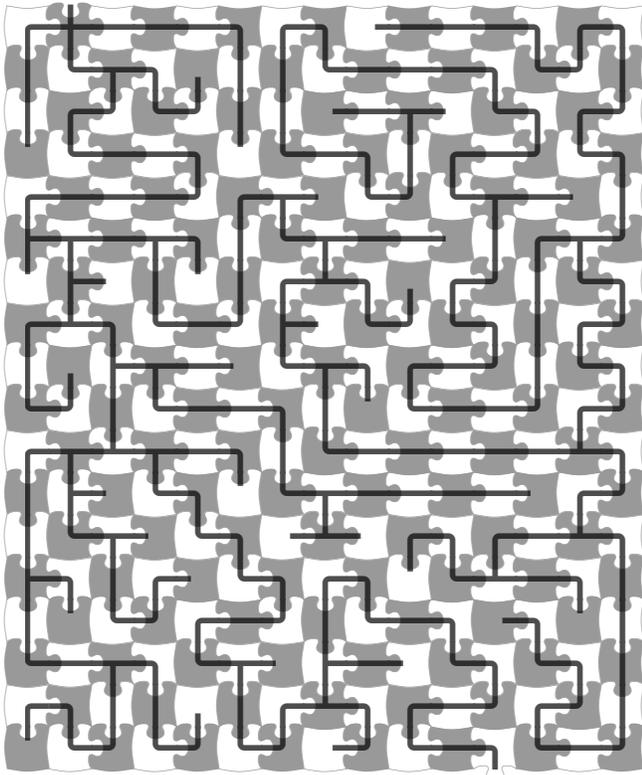


Solutions to mazes on pages 13 and 14.

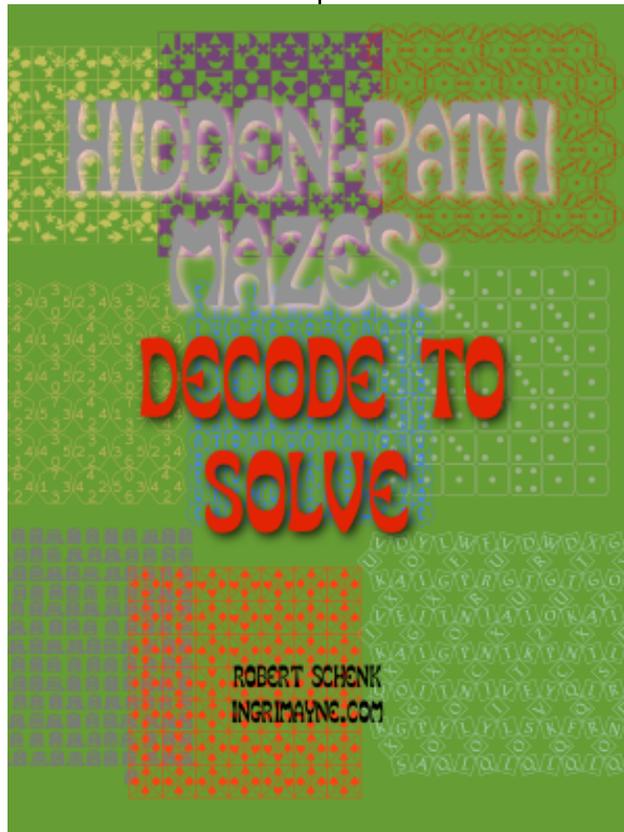


Solutions to mazes on pages 18, 19, 23, and 24.





K	H	N	R	N	R	L	N	H	K	H	N	R	F	Y	E	
K	F	Y	L	Y	L	X	H	F	K	F	Y	L	R	E	X	
F	Y	X	K	H	K	X	R	L	K	X	K	H	E	Y	E	
H	L	F	X	K	T	X	H	E	N	X	H	K	T	E	X	
F	F	F	L	N	L	N	E	Y	F	F	F	F	F	F	E	
H	L	H	L	Y	K	X	H	E	H	H	H	H	H	H	X	
R	K	X	R	E	Y	F	H	R	F	F	F	F	F	F	E	
E	N	X	H	E	N	E	Y	H	L	X	F	H	H	H	X	
K	H	N	R	N	R	K	X	R	N	R	K	X	F	F	E	
K	F	Y	L	Y	L	X	H	E	N	Y	L	X	H	L	X	
R	N	R	N	R	N	R	E	Y	K	H	L	N	K	X	E	
E	N	Y	L	Y	L	Y	L	E	Y	K	T	X	H	X	X	
K	H	E	Y	K	H	L	N	X	E	K	X	R	Y	E	Y	
K	F	E	Y	K	T	X	H	L	R	X	H	E	N	E	Y	
H	R	R	K	X	F	L	N	N	R	E	Y	F	F	F	E	
X	F	E	N	X	H	L	Y	K	Y	L	E	Y	H	L	X	
K	H	N	R	E	Y	R	T	N	R	N	R	K	X	F	F	E
K	F	Y	L	E	Y	E	N	Y	L	Y	L	X	H	L	X	
R	E	Y	R	N	R	N	R	N	R	N	R	K	X	E		
E	N	E	Y	E	N	Y	L	Y	L	Y	L	X	H	L	X	
R	X	R	N	R	X	R	X	R	X	R	X	R	X	R	X	F



Ages
4-7

EASY ALPHABET MAZES

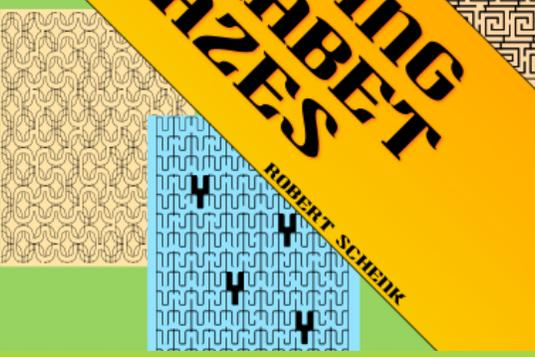
ROBERT SCHENK



Ages:
10+

AMUSING ALPHABET MAZES

ROBERT SCHENK



CASEY LOVES TRAINS



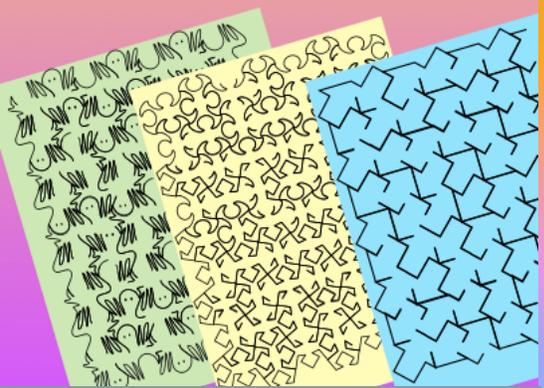
(AND LIKES MAZES)

AGES
4-9

ROBERT SCHENK

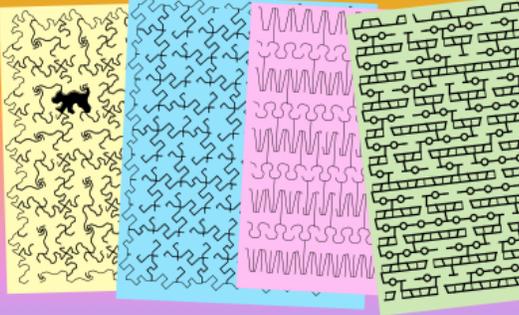
TANTALIZING TESSELLATING MAZES

Robert Schenk



MORE TESSELLATING MAZES

Robert Schenk



A Cornucopia of Mazes:

Stars, Tilings
and Patterns

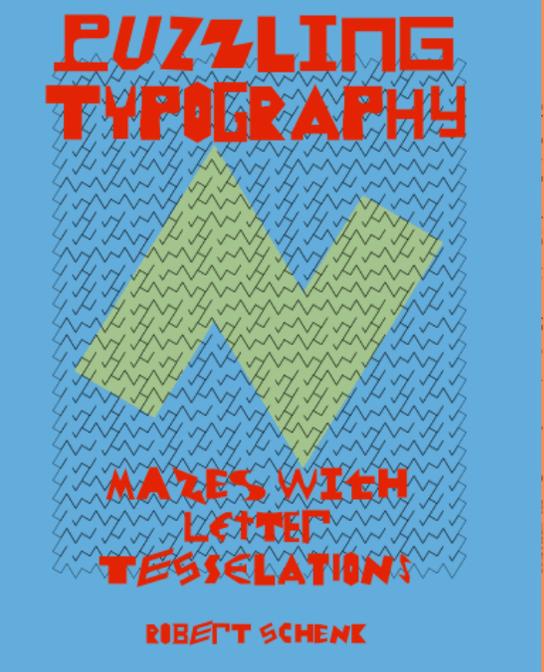
Robert Schenk



PUZZLING TYPOGRAPHY

MAZES WITH
LETTER
TESSELLATIONS

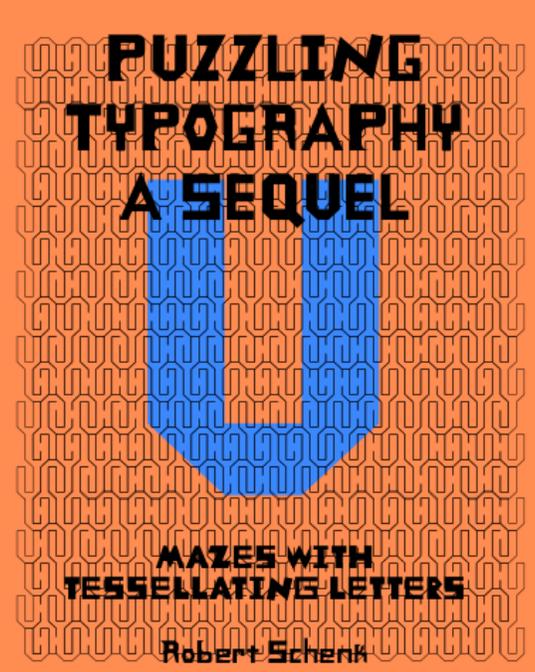
ROBERT SCHENK



PUZZLING TYPOGRAPHY A SEQUEL

MAZES WITH
TESSELLATING LETTERS

Robert Schenk



Tessellating Alphabet Mazes for Kids

Robert Schenk

