

a challenge in your pocket

an introduction to brainteasers

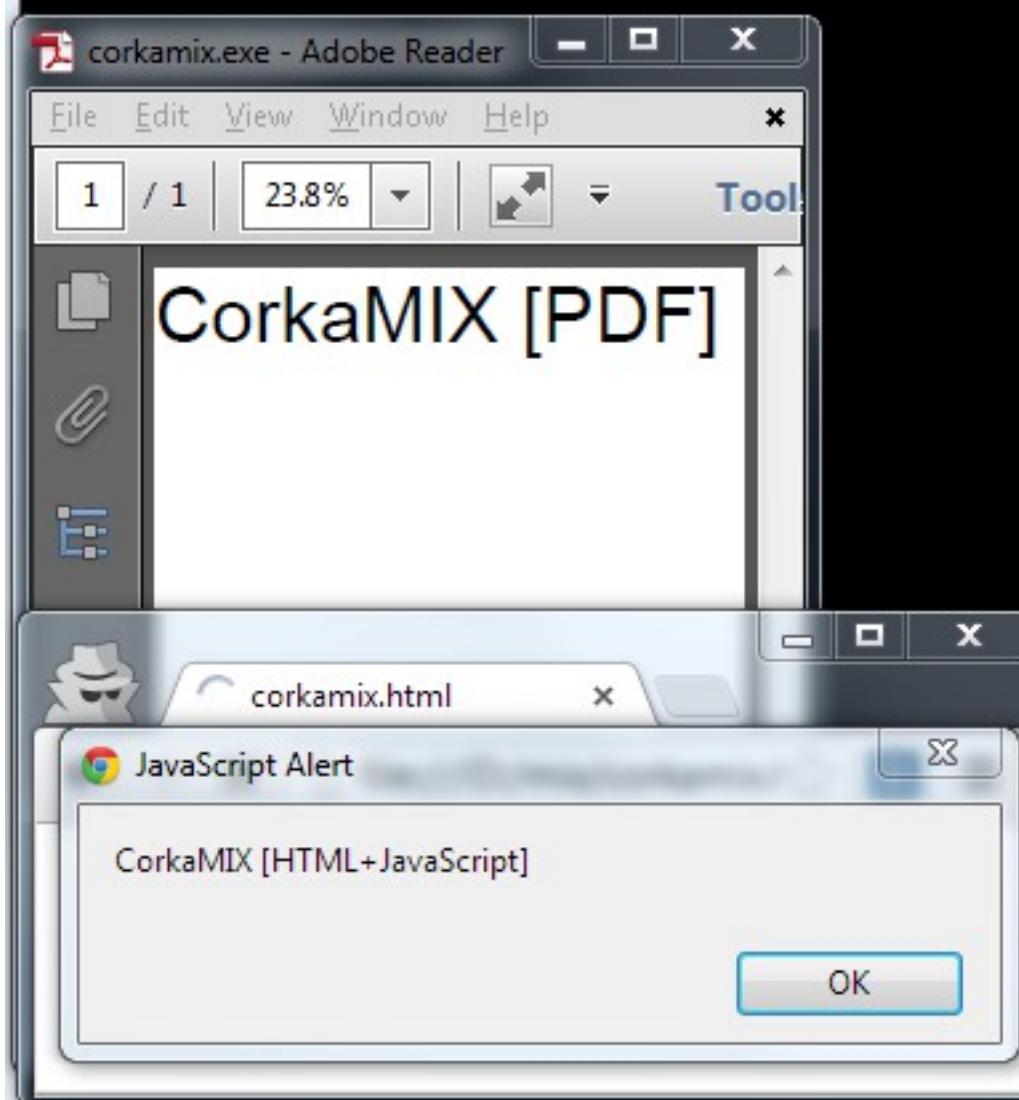


reverse engineering
&
visual documentations

<http://CORKAMI.com>

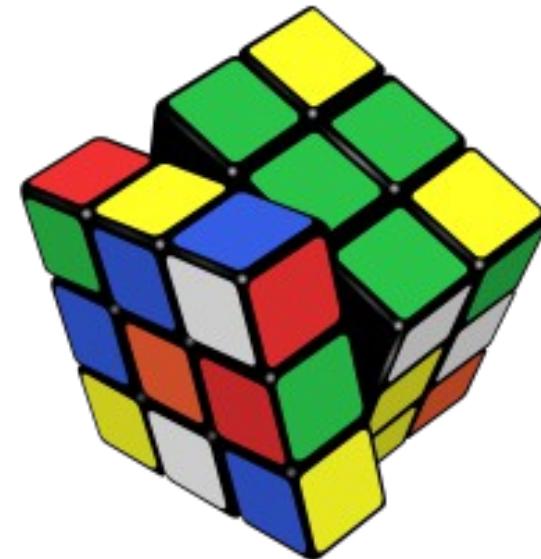
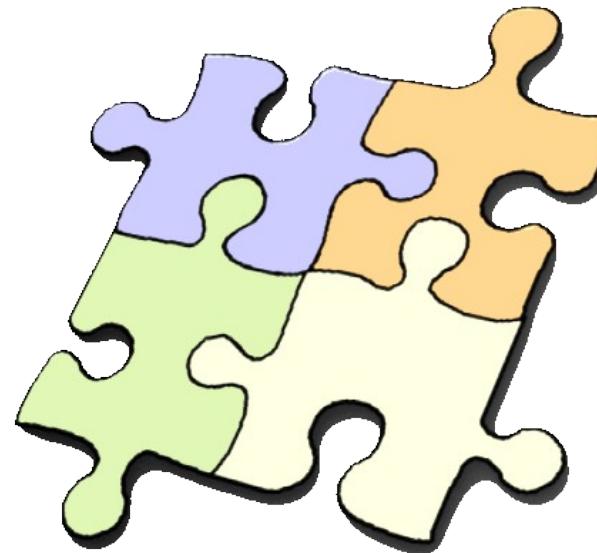
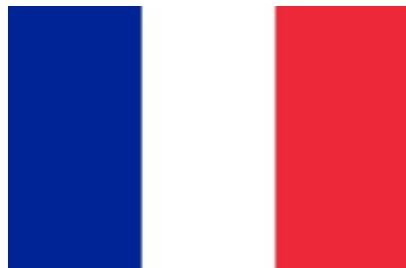


```
>corkamix.exe  
CorkaMIX [PE]  
>java -jar corkamix.exe  
CorkaMIX [Java CLASS in JAR]  
  
>cmp -b corkamix.exe corkamix_1b.exe  
cmp: EOF on corkamix.exe  
  
>python corkamix_1b.exe  
CorkaMIX [python]  
  
>copy corkamix.exe corkamix.html  
1 file(s) copied.
```



```
db 'MZ'  
; [...]  
db '%PDF-1.', 0ah  
db 'obj<>>stream', 0ah  
  
db '<html>'  
; [...]  
    at IMAGE_NT_HEADERS.Signature, db 'PE', 0, 0  
; [...]  
    db 0fh, 018h, 111b << 3  
    push msg  
    call [_imp__printf]  
    salc  
; [...]  
header:  
    db 'PK', 3, 4  
    dw 0ah ; version_needed  
; [...]  
    dd 0CAFEBABEh ; signature  
    dw 3 ; major version  
    dw 2dh ; minor version  
; [...]  
    dd 9 ; length of bytecode  
    GETSTATIC 8  
    LDC 14  
    INVOKEVIRTUAL 16  
    RETURN  
    dw 0 ; exceptions_count  
    dw 0 ; attributes_count  
; [...]
```





jigsaw
(jigsaw puzzle)

puzzle

puzzle

puzzle
brainteaser

casse-tête

Geduldsspiel

agenda

- enjoying a puzzle
- various kinds of puzzle
- puzzle designers
- personal advices

WARNING!!

A HUGE BATTLESHIP
MINOR SPOILER
IS APPROACHING FAST





Timonen's Raketti

- 1 take apart - *no* force/tools!
- 2 put back together



horseshoe

innocent/simple



complex



familiar



mysterious



fishy



friendly



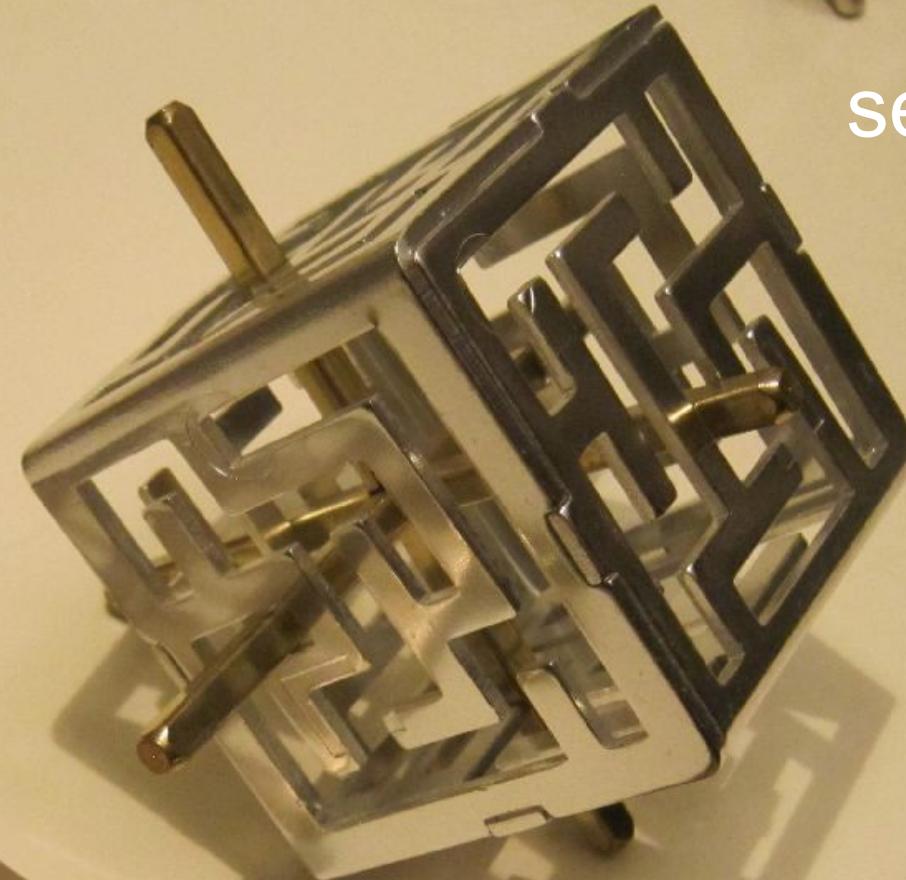
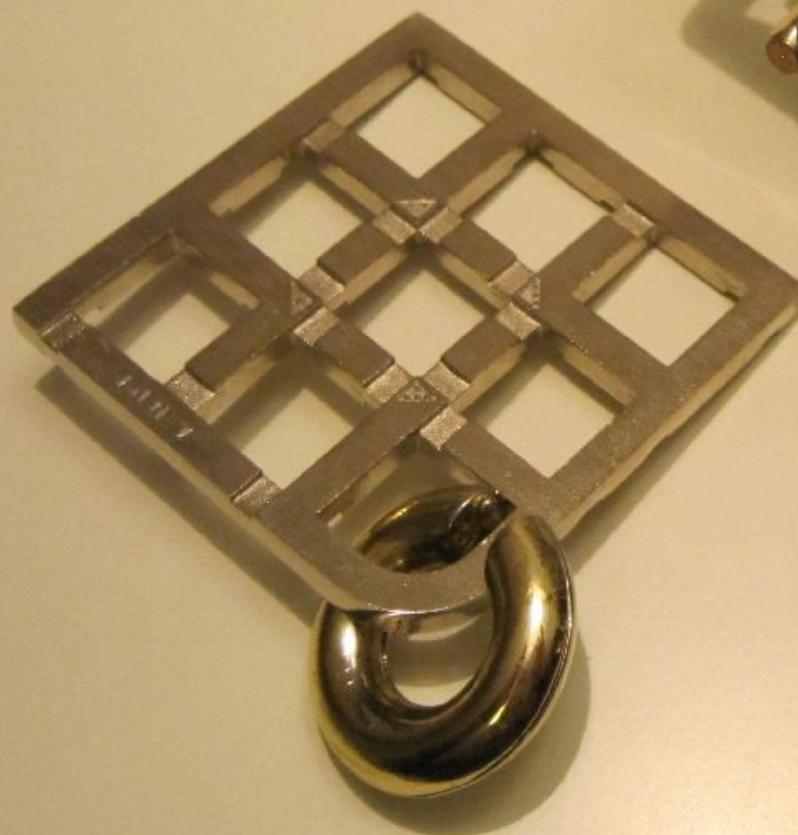
childish



steampunk



sequential



organic



coin locker



too late?





Timonen's Loop





how does it
move?



different ways of moving



start or end?



Dael O Ring – easy yellow



where do you think you're going?



News





van Deventer's
marble



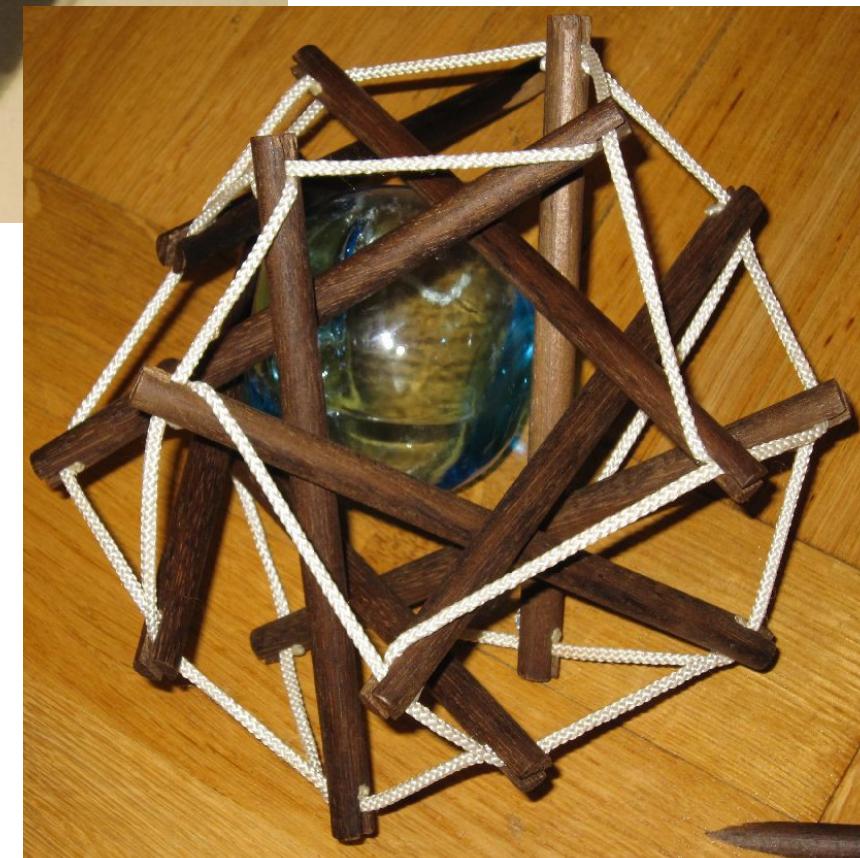
different kinds of puzzles

simple idea but smart path





not enough fingers



upgrades



packing



<http://www.toys-for-all.de/bilder/produkte/gross/Geduldspiel-Alles-fuer-die-Katz.jpg>

<http://www.puzzelkunst.nl/images/productimages/big/heptominoes.jpg>



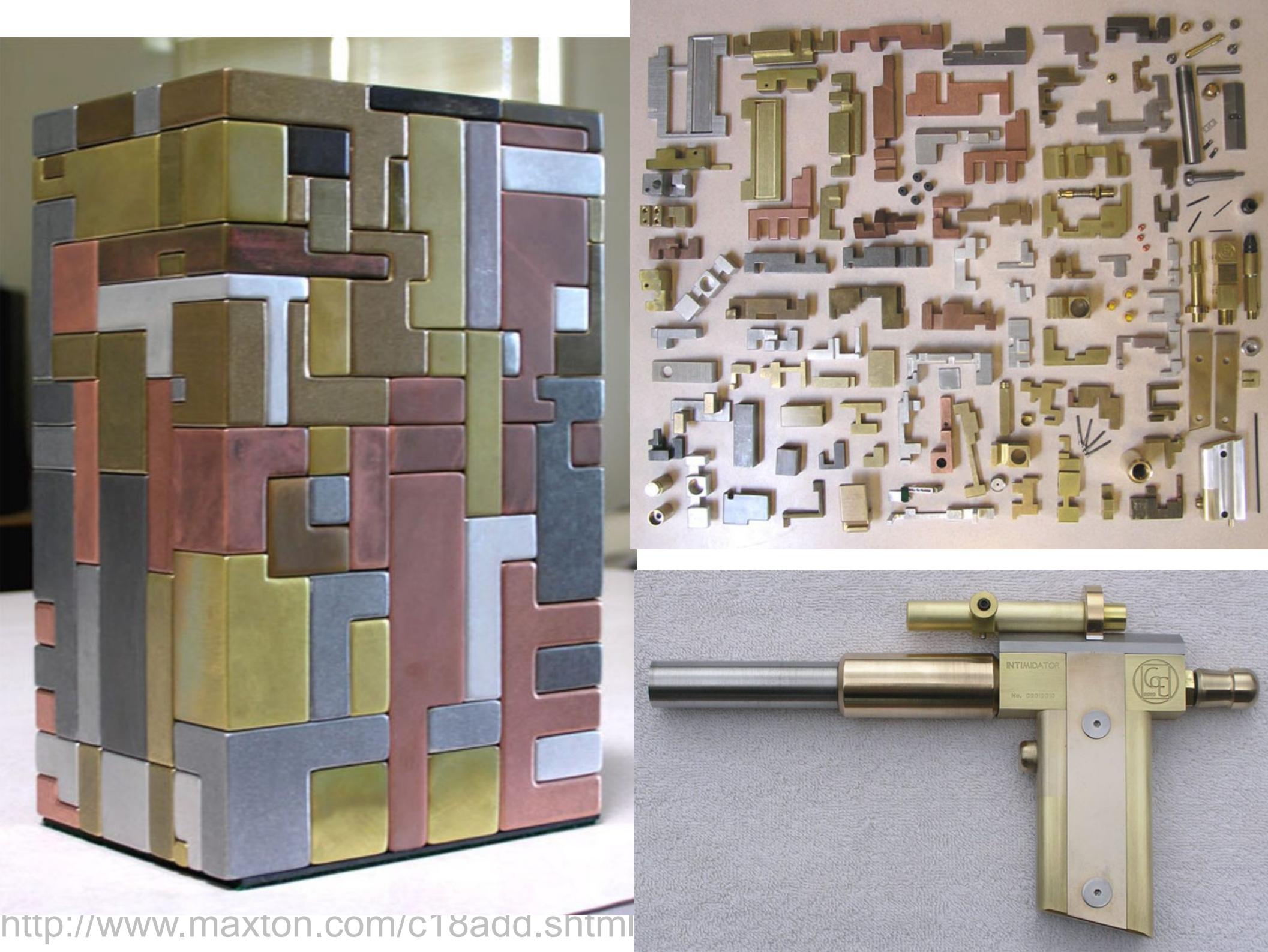
Wil Strijbos' Coke bottle







<http://hakone-zaiku.jp/en/shopping/karakuri.html>



the world of puzzle designers

the puzzle scene

- self-produced
 - hobbyist or full-time
 - *International Puzzle Party*
- one design, various manufacturer
 - many quality of manufacturing, many prices
 - Hanayama is a good compromise IMHO



<http://www.johnrausch.com/DesignCompetition/2001/entries.htm#Sunflower>
http://thejuggler.net/blog/x_marks_spot.jpg

too many Hanayama?





Oskar's



We found 211 products by Oskar_van_Deventer

Sort: Price: High to Low

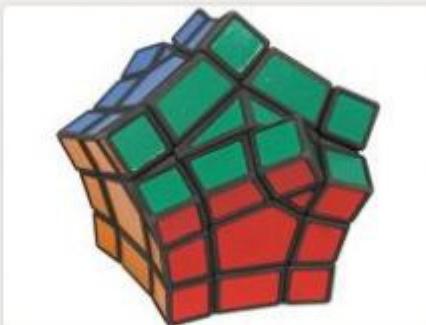


[Gear Head](#)

by Oskar_van_Deventer

(2) ★★★★★

From:
€1,466.36

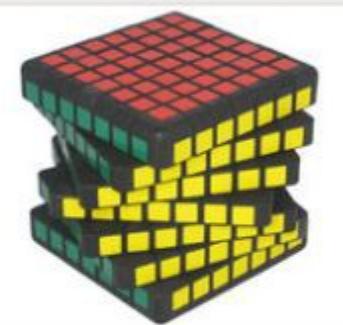


[Fairly Twisted Original](#)

by Oskar_van_Deventer

(0) ★★★★★

From:
€791.34



[Slice 7x7x7](#)

by Oskar_van_Deventer

(0) ★★★★★

From:
€587.07



[Dumbbell Skewb](#)

by Oskar_van_Deventer

(1) ★★★★★

From:
€478.54



[Number Planet](#)

by Oskar_van_Deventer

(14) ★★★★★

From:
€346.96



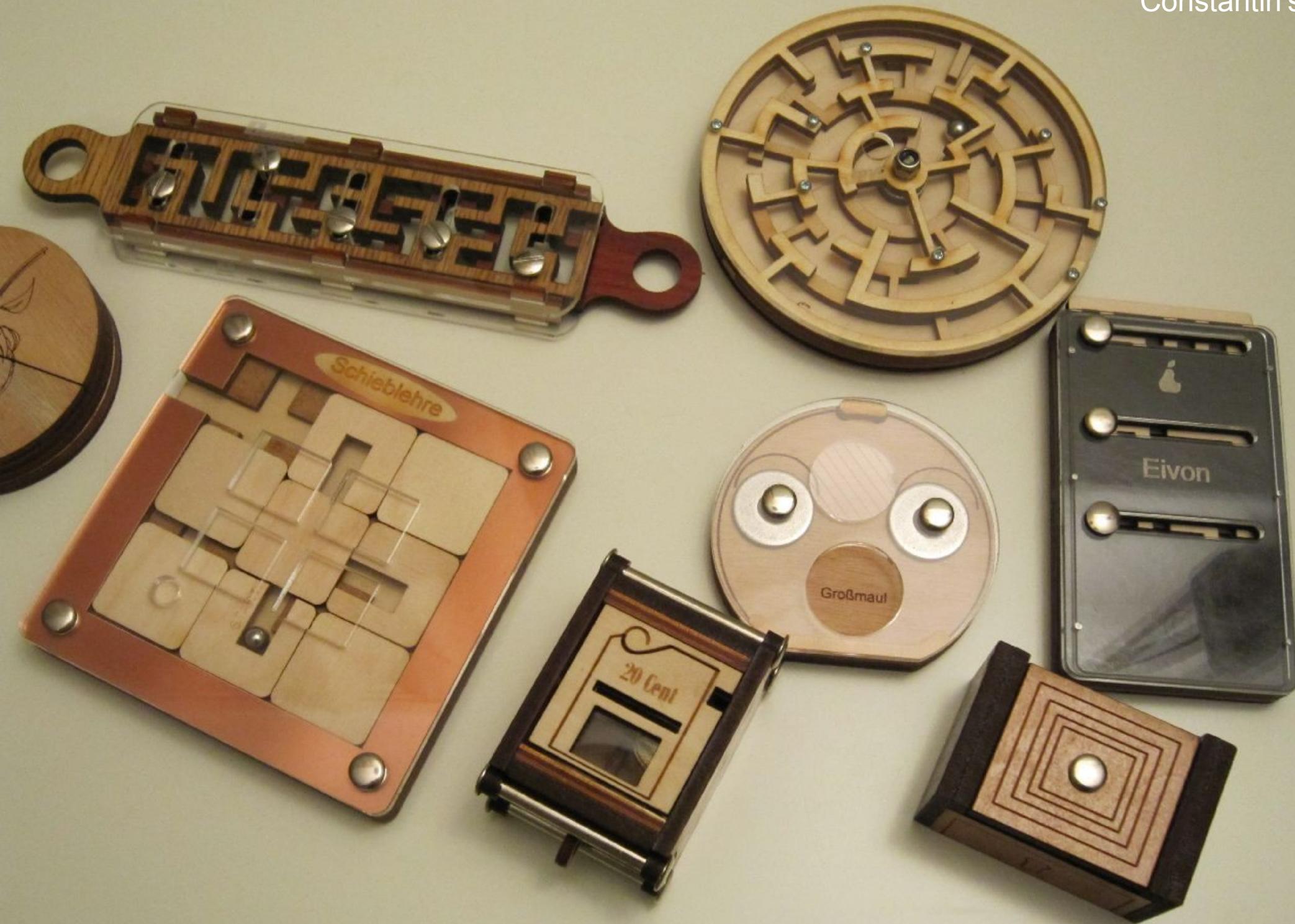
[Switched Maze](#)

by Oskar_van_Deventer

(0) ★★★★★

From:
€335.36







<http://www.ulmer-weihnachtsmarkt.de/ger/standplan/>

BurrTools - /Users/derek/share/doc/burrttools/DraculasDentalDesaster.xmpuzzle

File Toggle 3D Export Status Edit Comment Config Help About

Entities Puzzle Solver

Problems

New Delete Copy Label ← →

P1 - Problem

Piece Assignment

Result: S10 - Result Set Result

S1 S2 S3 S4 S5 S6 S7 S8 S9

S10 - Result

+1 -1 min=0 all+1 Clr Detail ← →

S1 S2 S3 S4 S5 S6 S7 S8 S9

Colour Assignment

C1 C2

Sort by Piece ↴ ↵ Sort by Result

Red → Red
Grey → Grey

Problem P1 result can contain 720 - 1656 voxels, pieces (n = 9) contain 1336 voxels

The software interface includes a menu bar with File, Toggle 3D, Export, Status, Edit Comment, Config, Help, and About. Below the menu is a tab bar with Entities, Puzzle, and Solver, where Entities is selected. A toolbar below the tabs includes New, Delete, Copy, Label, and navigation arrows. A large central workspace shows a complex assembly of grey and red 3D blocks. To the left, there are several panels: 'Piece Assignment' with a 'Result: S10 - Result' button; a list of pieces S1-S10; and a 'Colour Assignment' panel with two color swatches. At the bottom, there are buttons for sorting by piece or result, and a message stating 'Problem P1 result can contain 720 - 1656 voxels, pieces (n = 9) contain 1336 voxels'. A toolbar at the very bottom includes icons for file operations.



<http://www.shapeways.com/model/46885/more-mazencubes.html>

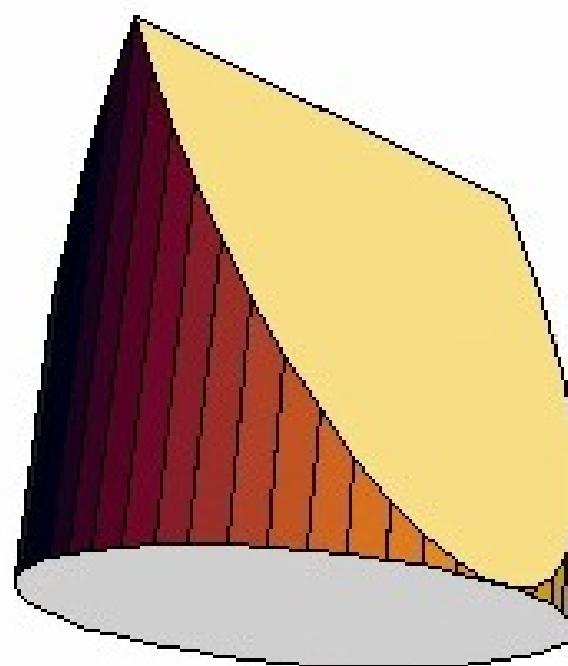
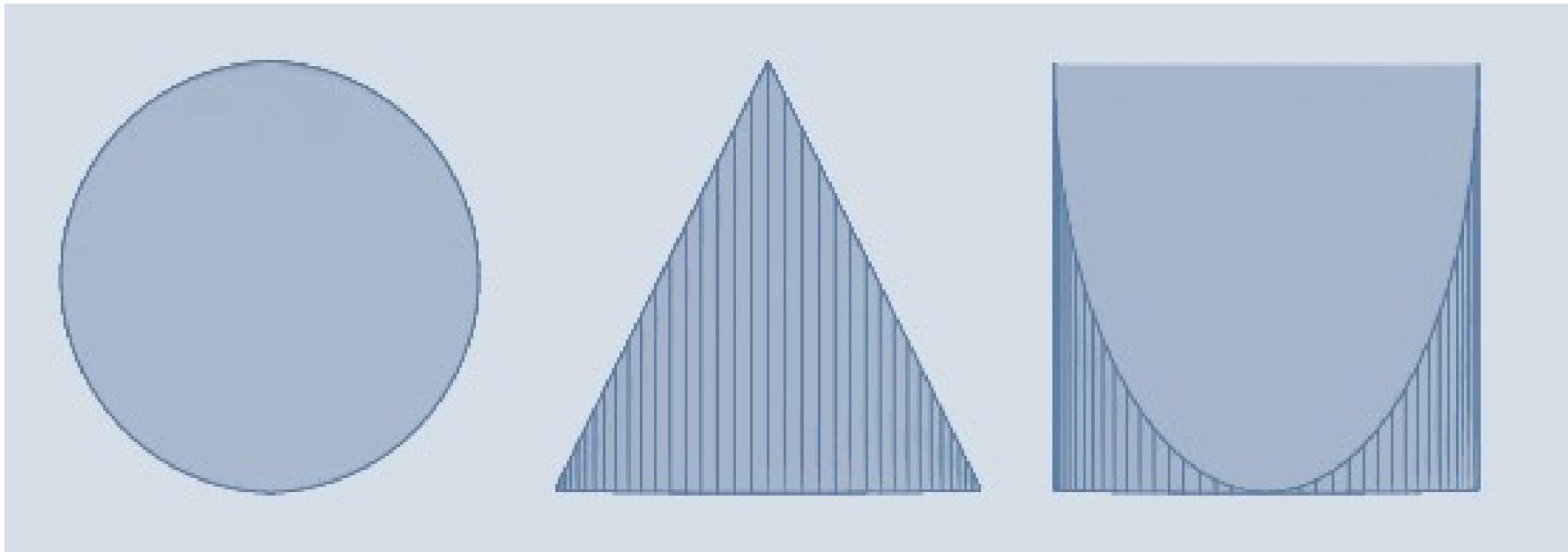
advices

traps



identical
or
tricky?

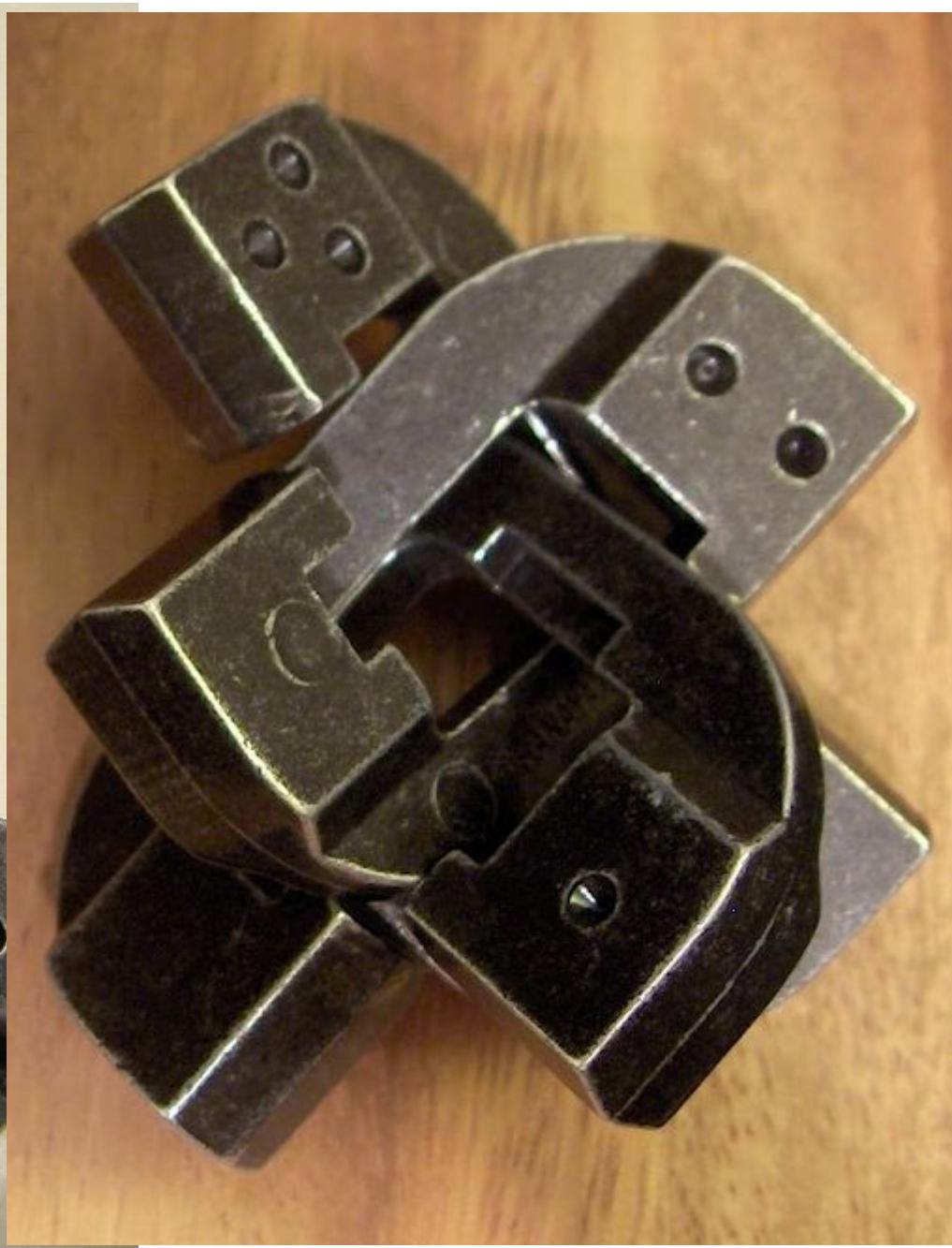
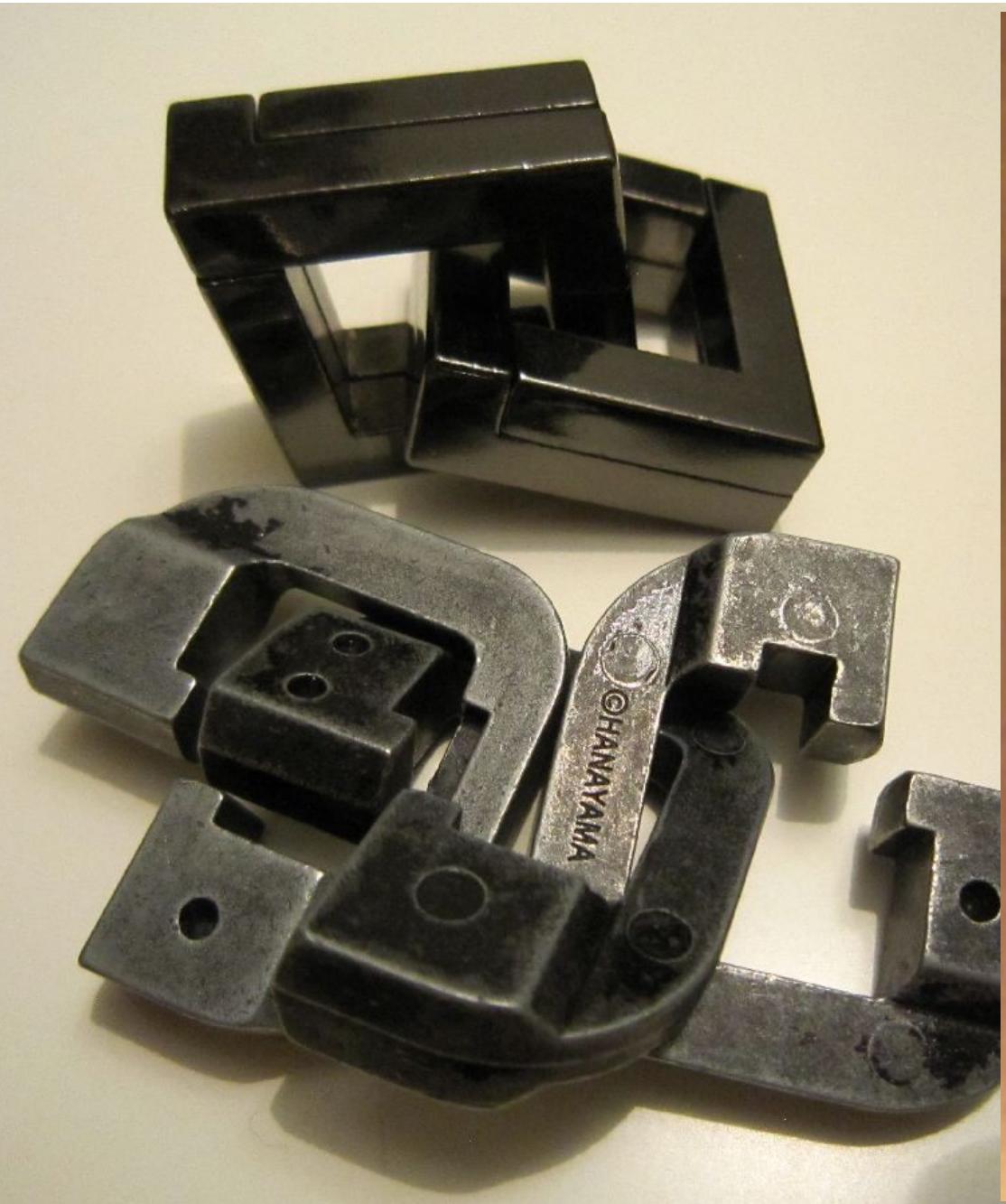






advices

- to start by yourself, buy an easy **and** a hard one
- let your hands forget
- new = stiff ↔ used = ugly
- thinking “it's impossible” is normal
- thinking “it's not for me” is just wrong
- don't shake - find the real solution
- don't share before you master
- bloggers: think! every puzzle is different
 - puzzle != text



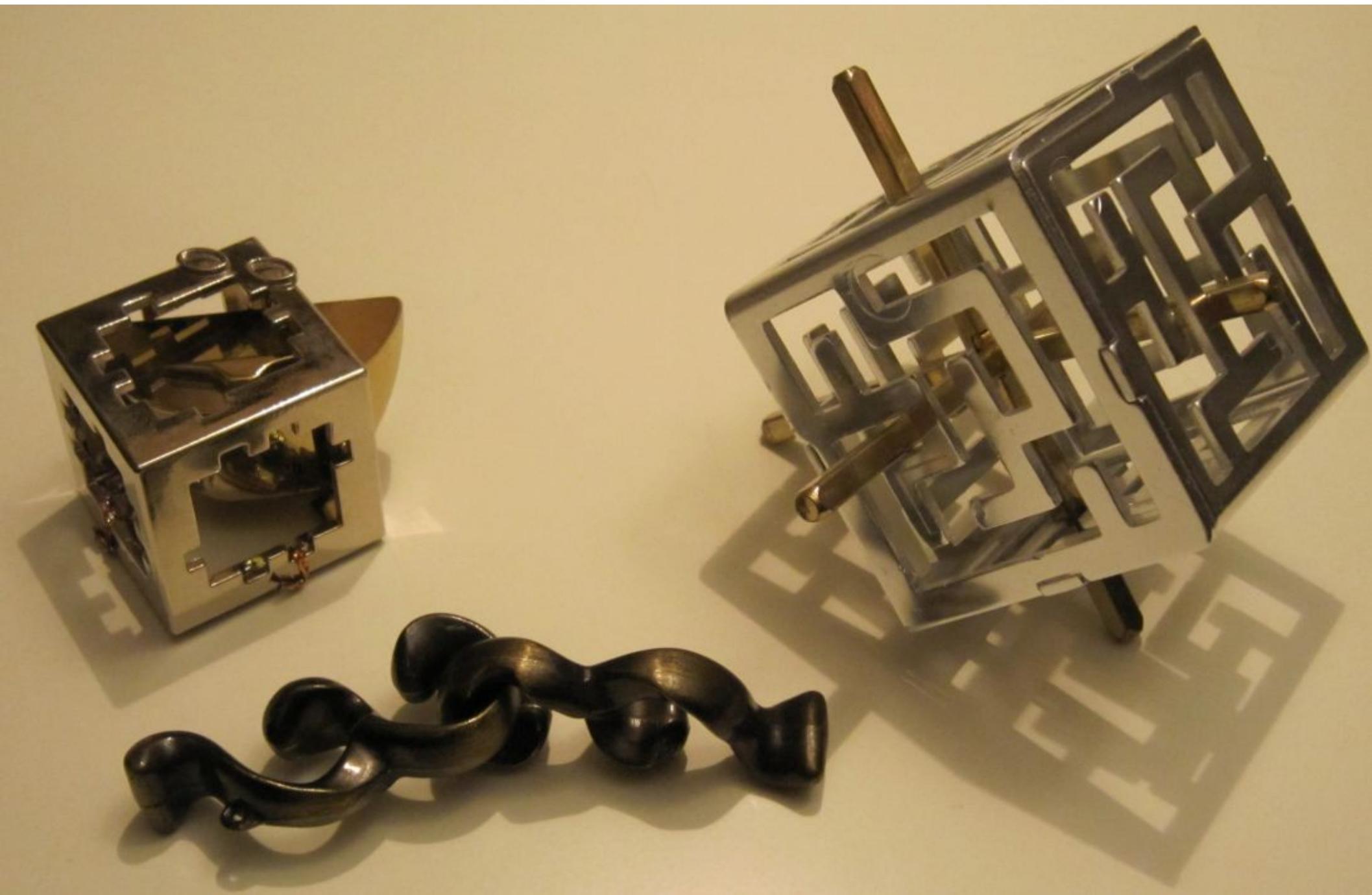
where to buy?

- dedicated shops are *really* rare :(
- puzzle cafés?
- online shops
 - <search engine>
 - Amazon Japan
 - limited advices :(
 - ratings are hard to rely on.



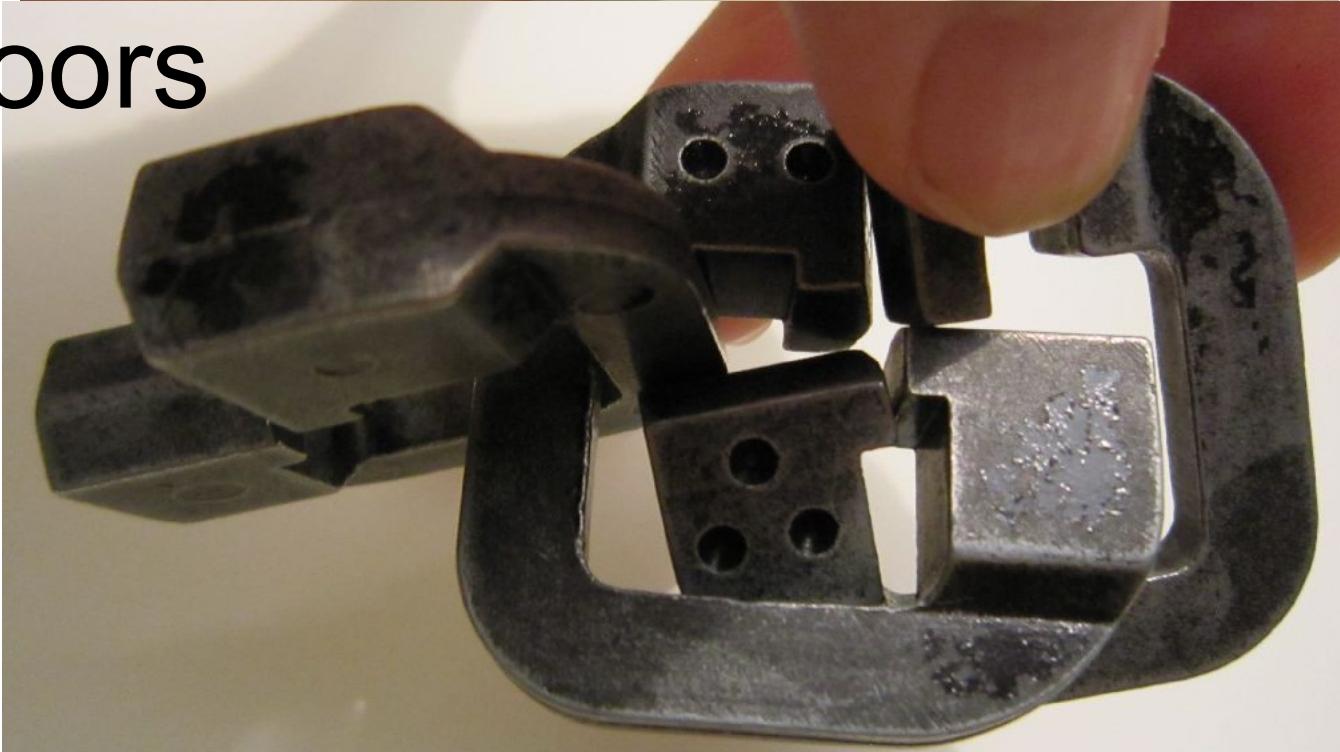
harder, faster, stronger

defects





backdoors



Conclusion

Conclusion

- fun, social, physical
 - can fit in your pocket
 - only a minority :(
- can be expensive
- unlimited
 - not always good!

Questions?

Thank YOU!

Ange Albertini @gmail.com

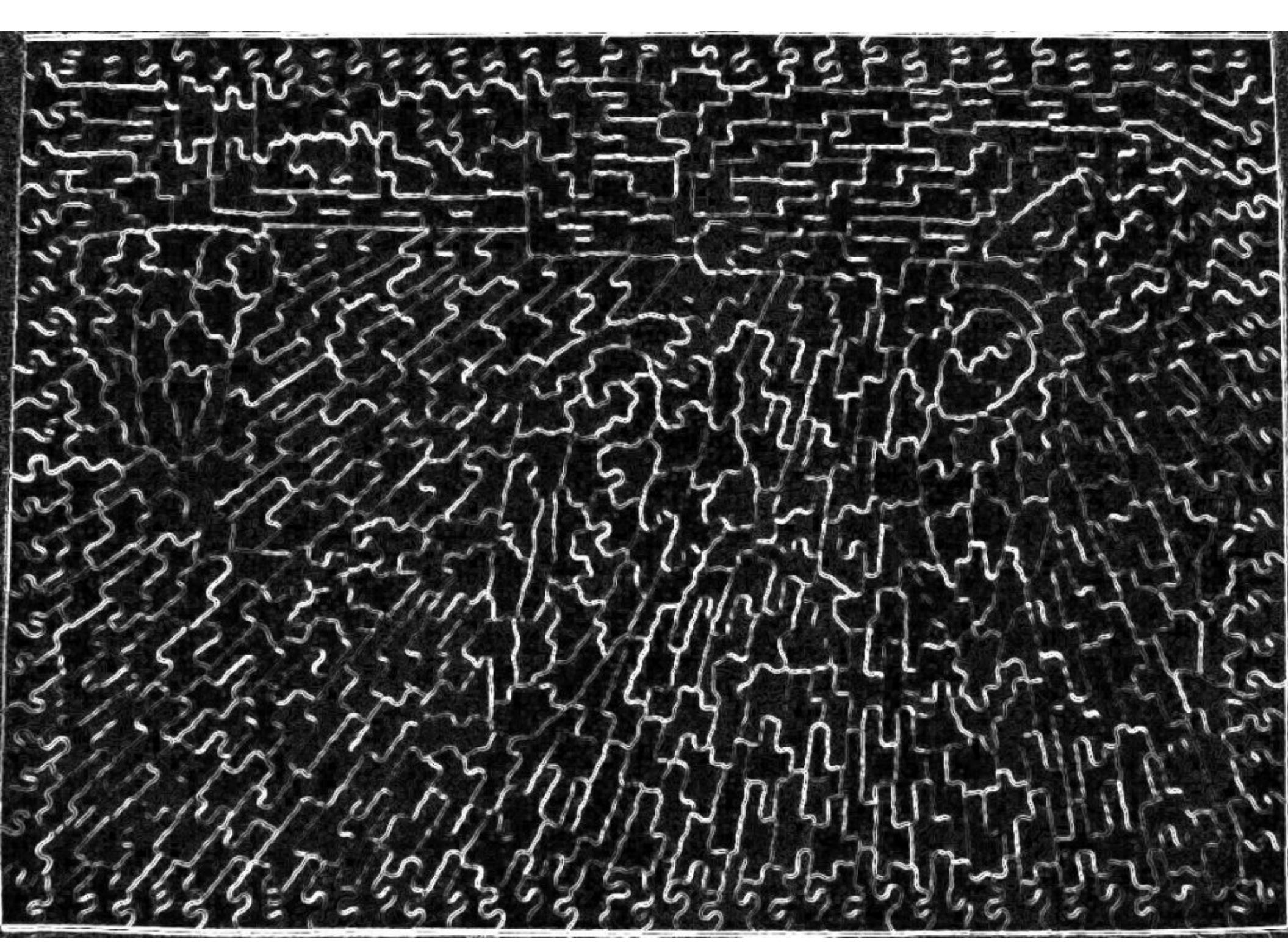
@ange4771

<http://corkami.com>



jigsaws











<http://www.pavelspuzzles.com/images/jigsaw-seraphina-2.jpg>