Kreative Puzzles

Puzzlography



by Karin & Jürg von Känel



Kreative Puzzles - Puzzlography

by Karin & Jürg von Känel

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Overview

This book contains a listing of puzzles Karin and Jürg von Känel designed and/or made It is meant as a reference guide not an indepth discussion of the puzzles.

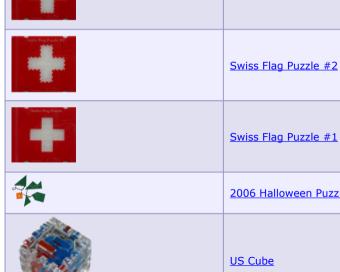
Puzzle Lists

Chronological List









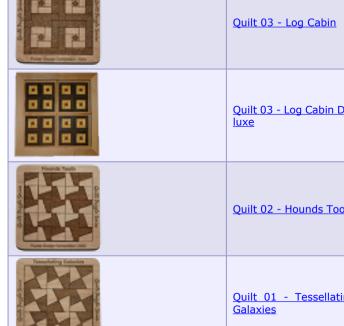
Swiss Flag Puzzle #3





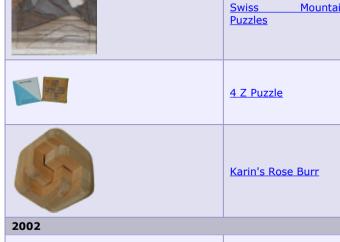
	Quilt 08 - Tessellati Squares
X	Quilt 07 - Card Trick
	Quilt 06 - Scrap Patch
The second secon	Quilt 05 - Flow Garden

Quilt 04 - Bow Tie



Log Cable







Tri Diamonds



Edith's Puzzle

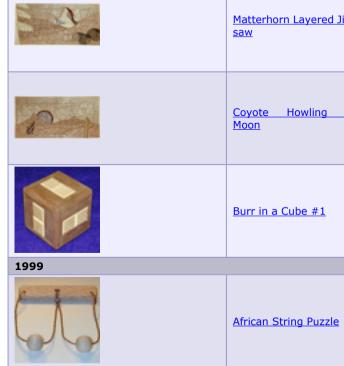


<u>Karin's Outline Burr</u>

2000



Sam Loyd's Square Cross





Karin's Puzzle



<u>Jupiter</u>



<u>HecTix</u>

Puzzles Designed by Karin

Puzzle		Design	Type	
2009				
	Puzzlerone - White	Karin & Jürg von Känel	ASS- STRA	
	Puzzlerone - Black	Karin & Jürg von Känel	ASS- STRA	
	<u>Puzzlerone</u> - <u>Brown</u>	Karin & Jürg von Känel	ASS- STRA	
2007				
	<u>Star Cluster -</u> <u>Nightshade Edi-</u> <u>tion</u>	Karin von Känel	ASS- OTH	
2005				

D 1

	<u>Star Cluster</u>	Känel	OTH
THE RESERVE TO SERVE	Sun Dance	Karin & Jürg von Känel	JIG- STD
	Moon Struck	Karin & Jürg von Känel	JIG- STD
Contract			

Karin's Cubes &

Ladders

Star Cluster

Karin

Karin

Känel

ASS-

PAT-

EDGE

von

von

***	Sun Dance	Karin & Jürg von Känel	JIG- STD
	Moon Struck	Karin & Jürg von Känel	JIG- STD

Star Cluster

Kantons

Swiss

Puzzle

Karin & Jürg von Känel

Karin

Känel

von

ASS-

ОТН

ASS-

OTH

4

	Karin's Rose Burr	Karin von Känel	INT- CART	
2001				
	Karin's Outline Burr	Karin von Känel	INT- CART	
1999				
	<u>Diamond Burr</u>	Karin von Känel	INT- POLY	

Karin's Puzzle

Karin von

Känel

ASS-

CART

Puzzles Designed by Juerg

Puzzle		
2010		
	Climb Mt. Fuji	
RECORDED PROGRAMMENT OF THE PROG	Mt. Fuji from Lake As	
Fabous 2	Mt. Fuji from Lake As	
	XMasCookies	
2009		
	CoyoteHowlingAtMark	



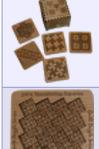




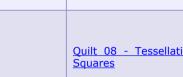


Swiss Kantons Puzzle

Moon Struck



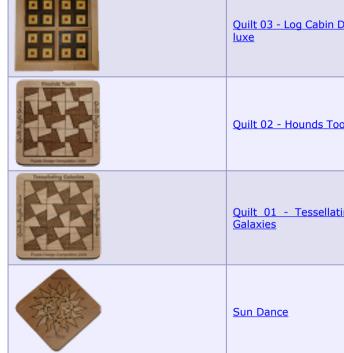
Thumbnail of: Quilt 07 - Card Trick



Ouilt - Puzzle Series 1

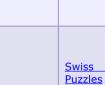
Quilt 07 - Card Trick















Moon Struck

saw #2

Matterhorn Layered J

Mountai



Tri Diamonds



Edith's Puzzle

2000			
Aug. (1-1)	Virginia.		
and the last	1		
The second second	-		

Matterhorn Layered J saw



Coyote Howling Moon











Burr in a Cube #1

IPP Exchange Puzzles

Puzzle		Desig	1	Type
2010				
	Climb Mt. Fuji	Karin Jürg Känel	& von	JIG- STD
2009				
	Puzzlerone - White	Karin Jürg Känel	& von	ASS- STRA
2008				
	Quilt 09 - jvk's Tes- sellating Hexagons	Jürg Känel	von	JIG- STD
2007				
	Galaxies & Stars	Jürg Känel	von	JIG- STD

2006

	<u>US Cube</u>	Jürg Känel	von	INT- CART
2005				
	Karin's Cubes & Ladders	Karin Känel	von	PAT- EDGE
2004				
1	Quilt 01 - Tessellat- ing Galaxies	Jürg Känel	von	ASS- OTH

Karin

Känel

INT-

CART

von

Karin's Rose Burr



2002				
	<u>Tri Diamonds</u>	Jürg Känel	von	ASS- STRA
2001				
	Karin's Outline Burr	Karin Känel	von	INT- CART
2000				
	Burr in a Cube #1	Jürg Känel	von	INT- CART
1999				
	<u>Diamond Burr</u>	Karin Känel	von	INT- POLY

1998



Coated Burr

Jürg von INT-Känel CART

CART

XMas Puzzles

	Design	Type
XMasCookies	Karin & Jürg von Känel	JIG-ST
CoyoteHowlingAtMarket	Jürg von Känel	JIG-ST
Mmmm Puzzle	Hirokazu Iwasawa	ASS- STRA
XMas Tree	Jürg von Känel	JIG-ST
Swiss Flag Puzzle #2	Jürg von Känel	JIG_ST
	CoyoteHowlingAtMarket Mmmm Puzzle XMas Tree	Mmmm Puzzle ZMas Tree ZMas Tree

+	Swiss Flag Puzzle #1	Jürg von Känel	JIG_ST
2005			
	Swiss Cube	Jürg von Känel	INT- CART
2004			
	Swiss Kantons Puzzle	Karin & Jürg von Känel	ASS- OTH
2002			
	<u>Tri Diamonds</u>	Jürg von Känel	ASS- STRA

1998

1997

Sam Loyd's Square to Cross

African String Puzzle

Sleeper Stopper

Diagonal Burr

Sam

Lovd

classic

classic

classic

classic

ASS-

STRA

TNG-

R&F

TNG-

R&F

INT-

POLY



Soma Cube

Piet Hein ASS-CART

Puzzle Details

The following pages contain details for each puzzle.

Plaited 3D Models



Type (Dal- gety)	???
Type (Slocum)	? (unknonw)
Desgined by	classic
Produced by	Karin & Jürg von Känel
Year	2011
Series	DesO, DesC

Climb Mt. Fuji



3 , ,	
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2010
Series	IPP, DesJ

Type (Dalgety) JIG-STD, 2D, 16 pieces in a box

Mt. Fuji from Lake Ashi



Type (Dal- gety)	JIG-STD, 2D, ~50 pieces and Frame
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2010
Series	DesJ

Mt. Fuji from Lake Ashi



Type (Dal- gety)	JIG-STD, 2D, ~50 pieces in CD case
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2010
Series	DesJ

XMasCookies



Type (Dal- gety)	JIG-STD, 2D, 12 pieces and frame
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2010
Series	XMas, DesJ

CoyoteHowlingAtMarket



Type (Dalgety)	JIG-STD, 2D, ~48 pieces and CD case
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2009
Series	XMas, DesJ
2000	7.1.1d0/ 2 d03

Puzzlerone - White



Type (Dalgety)	ASS-STRA, 3D, 9 pieces and packaging
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2009
Series	IPP, DesJ, DesK

Puzzlerone - Black



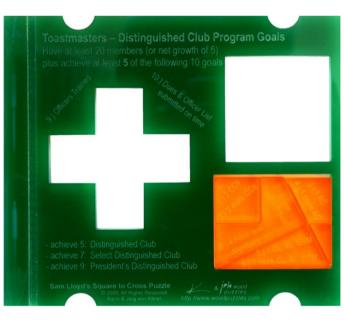
Type (Dalgety)	ASS-STRA, 3D, 9 pieces and packaging
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2009
Series	DesJ, DesK

Puzzlerone - Brown



Type (Dalgety)	ASS-STRA, 3D, 9 pieces and packaging
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2009
Series	DesJ, DesK

TM DCP Goals



J , ,	•
Type (Slocum)	1.1 (Put-Together)
Desgined by	classic
Produced by	Jürg von Känel
Year	2009
Series	DesC

Type (Dal- ASS-STRA, 2D, 5 pieces

gety) and tray

Mmmm Puzzle



Type (Slocum)	1.3 (Put-Together)
Desgined by	Hirokazu Iwasawa
Produced by	Karin & Jürg von Känel
Year	2008
Series	HC, XMas, DesO

Type (Dal- ASS-STRA, 3D, cube and

4 pieces

gety)

T Puzzle



Type (Slocum)	1.1 (Put-Together)
Desgined by	classic
Produced by	Karin & Jürg von Känel
Year	2008
Series	LC DesC

Type (Dal- ASS-STRA, 2D, gety) pieces

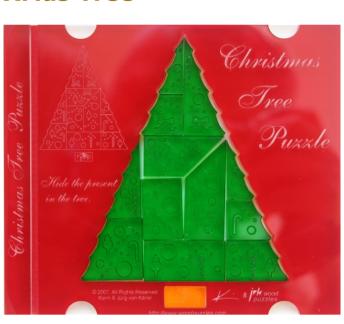
Quilt 09 - jvk's Tessellating Hexagons



- , ,	•
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2008
Series	IPP, DesJ, Quilt

Type (Dal- JIG-STD, 2D, 7 pieces gety) and tray

XMas Tree



Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2007
Series	XMas IC Desl

Type (Dal- JIG-STD, 2D, 20 pieces

and tray

gety)

Chocolate Chip Cookie Puzzle



	•
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2007
Series	LC, DesJ

Type (Dal- JIG-STD, 2D, 20 pieces gety) and tray

Galaxies & Stars



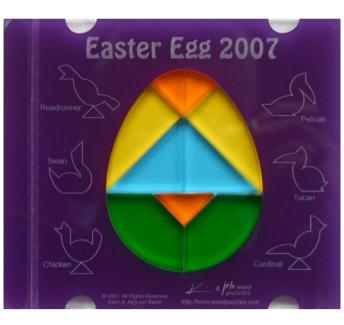
Type (Dal-	JIG-STD, 2D, 20 pieces and tray
gety)	and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2007
Series	IPP, DesJ

Star Cluster - Nightshade Edition



Type (Dal- gety)	ASS-OTH, 2D, 3 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin von Känel
Produced by	Karin & Jürg von Känel
Year	2007
Series	DesK

Easter Egg Puzzle



Type (Dal- gety)	JIG-STD, 2D, 9 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	classic
Produced by	Karin & Jürg von Känel
Year	2007
Series	LC, DesC

Swiss Flag Puzzle #3



Type (Dal- gety)	JIG_STD, 2D, 20 pieces
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2006
Series	DesJ

Swiss Flag Puzzle #2



Type (Dal- gety)	JIG_STD, 2D, 20 pieces
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2006
Series	XMas, DesJ

Swiss Flag Puzzle #1



	•
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2006
Series	XMas. Des1

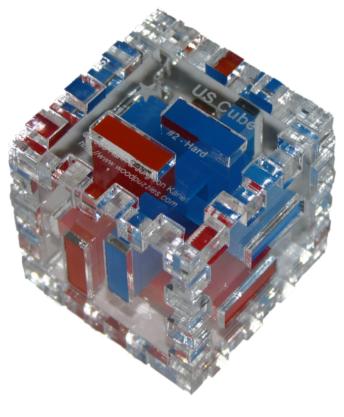
Type (Dal- JIG_STD, 2D, 20 pieces gety) and tray

2006 Halloween Puzzle



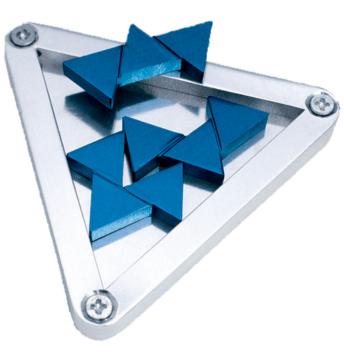
Type (Dal- gety)	ASS-STRA, 2D, 5 pieces
Type (Slocum)	1.1 (Put-Together)
Desgined by	classic
Produced by	Jürg von Känel
Year	2006
Series	LC, DesC

US Cube



Type (Dal- gety)	INT-CART, 3D, 6 pieces and cage
Type (Slocum)	3.4 (Interlocking)
Desgined by	Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2006
Series	IPP, DesJ

Star Cluster



Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin von Känel
Produced by	Karin & Jürg von Känel
Year	2005
Series	DesK

Type (Dal- ASS-OTH, 2D, 3 pieces

and tray

gety)

Swiss Cube



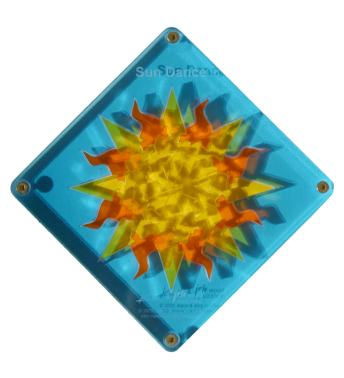
Type (Dal- gety)	INT-CART, 3D, 3 pieces and cage
Type (Slocum)	3.4 (Interlocking)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2005
Series	XMas, DesJ

Quilt 01 - Tessellating Galaxies



Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2005
Series	DesJ, Quilt

Sun Dance



_ , ,	•
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2005
Series	DesK, DesJ

Type (Dal- JIG-STD, 2D, 16 pieces gety) and tray

Moon Struck



_ , ,	•
Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2005
Series	DesK, DesJ

Type (Dal- JIG-STD, 2D, 17 pieces gety) and tray

Karin's Cubes & Ladders



Type (Dalgety)	projected onto the plane), 30 pieces and frame, box, 24 cards
Type (Slocum)	1.3 (Put-Together)
Desgined by	Karin von Känel
Produced by	Jürg von Känel
Year	2005
Series	IPP, DesK

PAT-EDGE, 2.5D (3D puzzle

Swiss Kantons Puzzle



Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin & Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2004
Series	XMas, DesK, DesJ

Type (Dal- ASS-OTH, 2D, 23 pieces

and tray

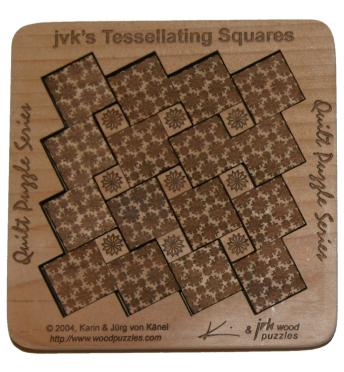
gety)

Quilt - Puzzle Series 1



Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	Quilt, DesJ

Quilt 08 - Tessellating Squares



Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	Quilt, DesJ

Quilt 07 - Card Trick

here would go the image

Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	Quilt, DesJ

Quilt 06 - Scrap Patch



Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	Quilt, DesJ

Quilt 05 - Flower Garden



Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	Quilt, DesJ

Quilt 04 - Bow Tie



Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	Quilt, DesJ

Quilt 03 - Log Cabin



Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	Quilt, DesJ

Quilt 03 - Log Cabin Deluxe



Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	Quilt, DesJ

Quilt 02 - Hounds Tooth



Type (Dal- gety)	ASS-OTH, 2D, 12 pieces and tray
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	Quilt, DesJ

Quilt 01 - Tessellating Galaxies



	-
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2004
Series	IPP, Quilt, DesJ

Type (Dal- ASS-OTH, 2D, 12 pieces gety) and tray

Sun Dance



	•	
Type (Slocum)	1.1 (Put-Together)	
Desgined by	Karin & Jürg von Känel	
Produced by	Karin & Jürg von Känel	
Year	2004	
Series	DesK, DesJ	

Type (Dal- JIG-STD, 2D, 16 pieces gety) and tray

Moon Struck



3 , ,	•	
Type (Slocum)	1.1 (Put-Together)	
Desgined by	Karin & Jürg von Känel	
Produced by	Karin & Jürg von Känel	
Year	2004	
Series	DesK, DesJ	

Type (Dal- JIG-STD, 2D, 17 pieces gety) and tray

Star Cluster



Type (Slocum)	1.1 (Put-Together)
Desgined by	Karin von Känel
Produced by	Karin & Jürg von Känel
Year	2004
Series	DesK

Type (Dal- ASS-OTH, 2D, 3 pieces gety) and tray

Matterhorn Layered Jigsaw #2



JIG-LAYR, 3D pieces	, 63
1.1 (Put-Togethe	er)
Jürg von Känel	
Jürg von Känel	
2003	
DesJ	
	pieces 1.1 (Put-Togethe Jürg von Känel Jürg von Känel 2003

Swiss Mountains Puzzles



Type (Dal- gety)	JIG-STD, 2D, ~16 pieces
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Karin & Jürg von Känel
Year	2003
Series	DesJ

4 Z Puzzle



ASS-CART, 2D, 4 pieces and 2-sided tray	
1.2 (Put-Together)	
classic	
Karin &Jürg von Känel	
2003	
DesO, DesC	

Karin's Rose Burr



Type (Slocum)	3.4 (Interlocking)
Desgined by	Karin von Känel
Produced by	Karin & Jürg von Känel
Year	2003
Series	IPP, DesK

pieces

INT-CART, 3D,

Type gety) (Dal-

Tri Diamonds



- , ,	
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2002
Series	IPP, XMas, DesJ

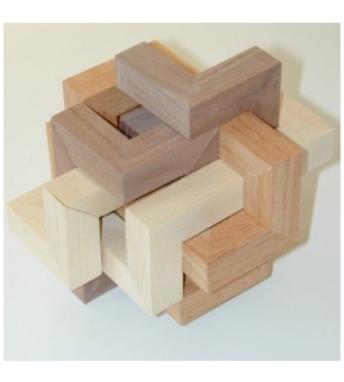
Type (Dal- ASS-STRA, 2D, 9 pieces gety) and frame

Edith's Puzzle



Type (Dal- gety)	ASS-CART, 2D, 11 pieces and frame
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2001
Series	DesJ

Karin's Outline Burr



Type (Dal- gety)	INT-CART, 3D, 6 pieces
Type (Slocum)	3.4 (Interlocking)
Desgined by	Karin von Känel
Produced by	Jürg von Känel
Year	2001
Series	IPP, DesK

Sam Loyd's Square to Cross



Type (Slocum)	1.1 (Put-Together)
Desgined by	Sam Loyd classic
Produced by	Jürg von Känel
Year	2000
Series	XMas DesC DesO

Type (Dal- ASS-STRA, 2D, 5 pieces and box

gety)

Matterhorn Layered Jigsaw



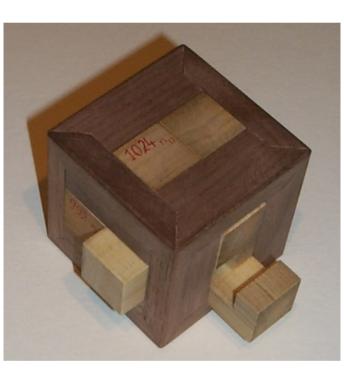
Type (Dal- gety)	JIG-LAYR, 3D, 78 pieces
Type (Slocum)	1.1 (Put-Together)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2000
Series	DesJ

Coyote Howling at Moon



Type (Da gety)	I- JIG-LAYR, 3 pieces	BD, 78
Type (Slocum)	1.1 (Put-Toget	her)
Desgined by	Jürg von Känel	
Produced by	Jürg von Känel	
Year	2000	
Series	DesJ	

Burr in a Cube #1



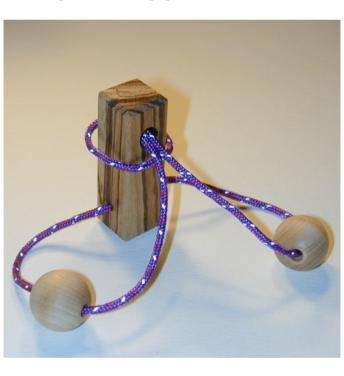
Type (Dal- gety)	INT-CART, 3D, 6 pieces and cage
Type (Slocum)	3.4 (Interlocking)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	2000
Series	IPP, DesJ

African String Puzzle



Type (Dal- gety)	TNG-R&F, 3D, 1 piece
Type (Slocum)	4.3 (Disentanglement)
Desgined by	classic
Produced by	Jürg von Känel
Year	1999
Series	XMas, DesC

Sleeper Stopper



Type (Dal- gety)	TNG-R&F, 3D, 1 piece
Type (Slocum)	4.3 (Disentanglement)
Desgined by	classic
Produced by	Jürg von Känel
Year	1999
Series	XMas, DesC

Diamond Burr



Type (Dal- gety)	INT-POLY, 3D, 6 pieces
Type (Slocum)	3.4 (Interlocking)
Desgined by	Karin von Känel
Produced by	Jürg von Känel
Year	1999
Series	IPP, DesK

Diagonal Burr



Type (Dal- gety)	INT-POLY, 3D, 6 pieces
Type (Slocum)	3.4 (Interlocking)
Desgined by	classic
Produced by	Jürg von Känel
Year	1998
Series	XMas, DesC

Karin's Puzzle



gety)	pieces
Type (Slocum)	1.2 (Put-Together)
Desgined by	Karin von Känel
Produced by	Jürg von Känel
Year	1998
Series	DesK

Type (Dal- ASS-CART, 3D,

Coated Burr



Type (Dal- gety)	INT-CART, 3D, 6 pieces
Type (Slocum)	3.4 (Interlocking)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	1998
Series	IPP, DesJ

jvk's favorite notchable 6-piece burr



gety)	pieces
Type (Slocum)	3.4 (Interlocking)
Desgined by	Jürg von Känel
Produced by	Jürg von Känel
Year	1997
Series	DesJ

(Dal- INT-CART, 3D,

Soma Cube

Picture of: Soma Cube

Type (Dal- gety)	ASS-CART, 3D, 6 pieces
Type (Slocum)	1.2 (Put-Together)
Desgined by	Piet Hein
Produced by	Jürg von Känel
Year	1997
Series	XMas, DesO

Jupiter



Type (Dal- gety)	INT-POLY, 3D, 12 pieces
Type (Slocum)	3.4 (Interlocking)
Desgined by	Stewart Coffin, Design #7
Produced by	Jürg von Känel
Year	1996
Series	B, DesO

HecTix



Type (Slocum)	3.4 (Interlocking)
Desgined by	Stewart Coffin, Design #25
Produced by	Jürg von Känel
Year	1996
Series	B. DesO

pieces

INT-POLY, 3D,

12

Type (Dalgety)

Appendices

Puzzle Classifications

While there are probably as many ways of classifying puzzles as there are collectors, most of them are based on either Jerry Slocum's classification or on the one from James Dalgety and Edward Hordern.

They are occasionally referred to as the American and the English classifications respectively.

- <u>Puzzle Classification by Jerry Slocum</u>
 source: Directory of Puzzle Collectors by Jerry Slocum. 4th Edition May 2000
- <u>Puzzle Classification by James Dal-gety and Edward Hordern</u>

source: http://puzzlemuseum.com

Puzzle Classification by James Dalgety

CLASSIFICATION OF MECHANICAL PUZZLES & PHYSICAL OBJECTS RELATED TO PUZZLES

by James Dalgety & Edward Hordern source: http://puzzlemuseum.com/

classify puzzles, but most attempts so far have either been far too specialized in application, or they have been too general to provide the basis for a definitive classification. Many people have provided a great deal of help but particular thanks are due to Stanley Isaacs, David Singmaster, and Jerry Slocum.

BACKGROUND: Several attempts have been made to

OBJECTIVE: To provide a logical and easy to use classification to enable non-experts to find single and related puzzles in a large collection of objects, and

(As presented at this stage, whilst examples are given for most groups, some knowledge of the subject is required.)

DEFINITIONS:

patents, books, etcetera related to such objects.

22.1......

SPECIFIC OBJECTIVES, CONTRIVED FOR THE PRINCIPLE PURPOSE OF EXERCISING ONES INGENUITY AND/OR PATIENCE.

A PUZZLE IS A PROBLEM HAVING ONF OR MORF

A MECHANICAL PUZZLE IS A PHYSICAL OBJECT COMPRISING ONE OR MORE PARTS WHICH FALLS WITHIN THE ABOVE DEFINITION.

METHOD: A puzzle should be classified by the problem that its designer intended the solver to encounter whilst attempting to solve it. In the case of a 3D interlocking assembly in the form of a cage with a ball in the centre: the fact that the instructions request the would-be solver to "remove the ball" does not change the 3D assembly into an opening puzzle. The disassembly and/or reas-

the ball" does not change the 3D assembly into an opening puzzle. The disassembly and/or reassembly of the cage remains the primary function of the puzzle. An interlocking puzzle should be classified according to its interior construction, rather than its outward appearance (e.g. a wooden cube, sphere, barrel, or teddy bear may all have similar A good example of multiple-class puzzles is the "Mazy Ball Game" made in Taiwan in the 1990s - It is based on a 3x3 sliding block puzzle under a clear plastic top - The pieces have L-shaped groves and a ball must be rolled up a ramp in the lower right onto one of the blocks - the ball

must be moved from block to block and the blocks

Cartesian internal construction and so should all be classed as Interlocking-Cartesian). In cases where it seems possible to place a puzzle in more than one category, it must be classified in whichever is the most significant category. A few puzzles may have to be cross-referenced if it is absolutely necessary; however in most puzzles, which include two different classes of problem, one class will usually be dominant by virtue of the fact that in solving it, the secondary problem has also been solved.

themselves slid around so that the ball can exit at the top left. Thus the puzzle requires Dexterity, Sequential movement and Routefinding. It would be classed as Routefinding because, if the route has been found, then the dexterity and sequence must have also been achieved.

A puzzle will be referred to as 2D if its third dimen-

A puzzle will be referred to as 2D if its third dimension is irrelevant (e.g. thickness of paper or plywood or an operation involving a third dimension

however jigsaws with sloping cuts in fact have a relevant third dimension, so they must be classed as 3D.

It will be noted that the definition of "A Puzzle" ex-

such as folding). Most standard jigsaws are 2D:

cludes the infants "posting box" which whilst perhaps puzzling the infant was contrived only to educate and amuse; it also excludes the archer attempting to get a bulls-eye, the exercise of whose ingenuity is entirely incidental to the original warlike intent of the sport. Also excluded are puzzles that only require paper and pencil (e.g. crossword puzzles), unless they are on or part of some physical object. It is understood that specialist collectors will further subdivide the Sub-Classes to suit their own specialised needs. For example, Tanglement Rigid & Tanglement Semi-Rigid is awaiting a thorough study of the topology of wire puzzles.

The full abbreviations consist of 3 characters, hyphen, plus up to 4 characters, such as "INT-CART". These are the standard abbreviations for the classes that have been chosen for relative ease of memory and conformity with most computer databases.

The 14 MAIN CLASSES ARE AS FOLLOWS:

DEXTERITY PUZZLES (DEX) require the use of manual dexterity or other physical skills in their solution.

ROUTEFINDING PUZZLES (RTF) require the solver to find either any path, or a specific path as defined by certain rules.

TANGLEMENT PUZZLES (TNG) have parts that must be linked or unlinked. The linked parts, which may be flexible, have significant freedom of movement in relation to each other, unlike the parts of an interlocking puzzle.

OPENING PUZZLES (OPN) are puzzles in which the principle object is to open it, close it, undo it, remove something from it, or otherwise get it to work. They usually comprise a single object or associated parts such as a box with its lid, a padlock and its hasp, or a nut & bolt. The mechanism of the puzzle is not usually apparent, nor do they involve general assembly or disassembly of parts that interlock in 3D.

INTERLOCKING PUZZLES (INT) interlock in three dimensions, i.e. one or more pieces hold the rest together, or the pieces are mutually self-sustaining. Many clip-together puzzles are "non-interlocking".

into pieces from a single complete object, and the principle objective is to restore them to their unique original form. **ASSEMBLY PUZZLES** (NON-INTERLOCKING) (ASS) require the arrangement of separate pieces to make

JIGSAW PUZZLES (JIG) are made as if cut or stamped

specific shapes without regard to the sequence of that placing, they may clip together but do not interlock in 3D. Some have a container and are posed as packing problems.

PATTERN PUZZLES (PAT) require the placing or ar-

rangement of separate pieces of a similar nature to complete surface patterns according to defined rules. The pattern required may be the matching of edges of squares, faces of cubes, etc. The pattern may be colour, texture, shape, etc. Where the pattern is due to differences in shape they must be sufficiently minor not to obscure the similarity of the pieces.

FOLDING & HINGED PUZZLES (FOL) have parts that are joined together and usually do not come apart. They are solved by hinging, flexing, or folding.

SEQUENTIAL MOVEMENT PUZZLES (SEQ) are those that can be solved only by moves which can be seen to be dependant on previously made moves.

JUGS & VESSELS (JUG) have a mechanical puzzle or trick in their construction that affects the filling, pouring or drinking therefrom.

OTHER TYPES OF MECHANICAL PUZZLES & ORIECTS

(OTH) This group is for puzzle objects that do not easily fall into the above categories and cannot be categorised into sufficiently large groups to warrant their own major class. Included in this group are Balancing, Measuring, Cutting, Math, Logic, Trick, Mystery, & Theoretical puzzles. Also provision is made for puzzles pending classification.

AMBIGUOUS PICTURES & PUZZLING OBJECTS (AMB) in which something appears impossible or ambiguous.

NON-PUZZLE but related EPHEMERA (EPH) has been included as most puzzle collections include related ephemera which, whilst not strictly puzzles, need to be classified as part of the collection.

Changes to Puzzle Classification 1999:

Prior to 1999 there were separate classes for different dimensions etcetera, which resulted in an unwieldy list.

The number of classes has been reduced by requiring that the Dimensions and the Number of pieces are always stated where relevant. Greater precision has been introduced by allowing a number of Keywords to be entered as Qualifiers.

a "+", then any special containers or boxes that are relevant to the puzzle. Optionally "in" box or tray may be added if this is not significant to the solution.

Counting Pieces: The Number of pieces is stated then

Dimensions may be 2D, 3D, 2D&3D, 2Don3D, 2Dto3D, and 4D.

Qualifiers are keywords used to describe the pieces and other important features of the puzzle. Several of these may be used such as "Magnetic Triangles". Other keywords may be introduced from time to time; but the list should not be allowed to get confusingly long. Typical Qualifiers are:

- Rod (A standard Burr has "Square Rods")
- Polycubes Squashed (A Cartesian burr may be distorted by compression along one straight line)
- · Skewed (A Cartesian Burr may have all its pieces rotated along their length)
- Diagonal (A Cartesian Burr with the pieces rotated by 45 degrees)

Organic
Linked
Magnetic
Powered (Clockwork, Battery, Mains Electric, etc.)

THE TABLE OF CLASS DETAILS FOLLOWS:

CLASS

Regular

CODE

PUZZLE CLASS ABBREVIATIONS (PZCODE) are standardized to maximum of 8 characters: XXX-YYYY where XXX is the main class and YYYY is the subclass.

EXAMPLES of puzzles in each class are given in the right-hand column.

FXAMPI FS

DEX-UNCA	Uncased Dexterities	Cup & Ball, Turnier", To Puzzles using
DEX-BALL	Dexterity. Plain Balls into holes	Pentangle "Ro
DEX-OBST	Dexterity with sundry obstacles &/or objects	Ramps - brid etc.
DEX-LQOB	Liquid objects	Mercury mani
DEX-INLQ	Dexterity in Liquid	Water-filled p
DEX-MIRR	Indirect viewing by mirror	Kohner's "Nei
DEX-MECH	Mechanised	Tomy's "Pock
DEX-TOOL	Using tools & magnetic tools	-
DEX-RTFL	Route following Dexterity	_
DEX-HIDD	Objects concealed from view	Four Generat gel's "Black B
DEX-ELEC	Electrical & Electronic Dexterities	-
DEX-PINB	Pinball related dexterities	Bagatelle
DEX-OTH	Other Dexterities	Pneumatic op

Cum 0 Dall

RTF-CPLX	Routefinding with Changing Path &/or Complex Travel- ler	"Frying Pa kee"(complex Maze"(comple ger"(complex
RTF-STEP	Routefinding Step Mazes	Ring & Hole n
RTF-UNIC	Unicursal Routefinding	Icosian Game
RTF-SHOR	Shortest Route	-
RTF-ANY	Route Mazes (any path)	Most Hedge n of a cube, Bal lets
RTF-OTH	Complex Route Mazes with special objectives	"Worried Woo Number tota objects, visiti
TNG-RIGI	Tanglement of Rigid & Semi Rigid Parts	Wire PUZZLE Rings
TNG-R&F	Tanglement of Rigid & Flex- ible Parts	Hess Wire pu Halo"
TNG-FLEX	All Flexible Parts	Leather tangl
TNG-RING	Puzzle Finger Rings	Puzzle Rings,
OPN-BOX	Opening Containers	Boxes, Purses
OPN-LOCK	Opening Locks	Padlocks
OPN-HIDD	Opening/finding Hidden Compartments not origin- ally designed as puzzles	Chippendale Rings.
OPN-OTH	Opening other objects	Nut & Bolt, Oskar's Keys "Hazelgrove E

INT-BOX		Strijbos Alum
	Cartesian (Internal Parts	Burrs, Cutler
INT-CART	along 3 mutually perpen-	plastic keych
	dicular axes)	Swords"
	Interlocking Polyhedral &	
INT-POLY	other non-cartesian geo-	Coffin's "Satu
	metric shapes	
INT-OTH	Other Interlocking Shapes	"Tak-it-Apart
ITC CTD	Ctandard liggans	Can include o
JIG-STD	Standard Jigsaws	jigsaws with l
	Jigsaws with identical	"Shmuzzles",
JIG-IDEN	pieces	Picture Cubes
	Jigsaws with non perpen-	"Broken Hea
JIG-SLOP	dicular/sloping cuts	Tooth Tiger"
JIG-LAYR	Multiple layer Jigsaws	Transparent E
JIG-OTH	Other jigsaws	Stave variab
		Bilhourd's inc
	•	

ASS-CART	Assembly of Cartesian Parts	cubes, Soma, agon", "Eve Soma, Laker
ASS-STRA	cartesian	Tangram, T Hexagonal ivory cube
ASS-POLY	Assembly Polyhedra & Spheres	Ball Pyramids
ASS-OTH	Assembly of other shapes	Pack the Plu "Phoney Balo

Pentominoes,

PAT-EDGE	Matching Edges &/or Corners patterns	Heads & Tails squares
PAT-STIX	Patterns of sticks	Match Puzz Laberint"
PAT-NUMB	Arrangements of Number Patterns	Magic Square
PAT-SIMI	Pattern arrangements of similar, points, pegs, or pieces according to prede- termined rules	Waddington's Insanity",
PAT-DISS	lules	cision", Chine dington's "Ko
PAT-STAK	Stacking, Overlapping & Weaving Patterns	Stacking Tra in", Loyd's puzzles
PAT-OTH	Other Pattern puzzles	Oskar's "Sola
FOL-SPRI	Folding Springy wire and strips	"Why Knots",
FOL-HGOP	Folding Hinged parts in Open chain	Rubik's "Sn Clinch Cube
FOL-HGCL	Hinged Parts in Closed chain	Flexagons, Ficube"
FOL-SHEE	Folding sheets & strips	Map Folding, hedra

SEQ-PLAC	Sequential Placement	"Psychic Puzz
SEQ-RIVR	Sequential River Crossing	"Wolf,Sheep 8
SEQ-HOPP	lumning	Solitaire, Tow Peg moving p
SEQ-SIMP	Sequential Simple Sliding & Shunting (No group moves needed)	15s puzzle, ⁻ versions"
SEQ-GRP	Sliding & Shunting with Mechanical or Rotating parts (some Group moves NEEDED)	"Backspin",
SEQ-ROLL	Sequential Rolling	Rolling 8 Cub
SEQ-OTH	Sequential Miscellaneous Mechanical	"The Brain", Out"
JUG-STD	Puzzle Vessels standard (built-in tubes to suck)	-
JUG-CPLX	Complex Vessels requiring special manipulation	IUG-STD/IUG
JUG-BASE	Vessels that pour from Base	"Jolly Jugs", 1
JUG-NLID	Lidless Vessels (fill from base)	Cadogan Tea
JUG-OTH	Other vessels	Royale's ": Spoutless wir

COLM-FLEC.	Electrical & Electronic (non- dexterity)	-
OTH-BAL	Balancing (non-dexterity)	"Columbus Eg
OTH-MEAS	Measuring & Weighing Puzzles	Jugs & Liq Archimedes G
отн-сит	Cutting Puzzles	Cork for 3 Ho
OTH-WORD	Puzzles applied to objects, the puzzle more usually found printed on paper	
OTH-RIDD	Riddles	Riddles (on F etc.)
ОТН-МАТН	Mathematical Puzzles (ex- cluding number pattern ar- rangements)	_
OTH-LOGI	Logic Puzzles	Cartoon pictu
OTH-TRIK	Trick or Catch Puzzles (solution needs subterfuge)	"Infernal Bott
OTH-MAGI	Magic & Conjuring Puzzles	Self-working
OTH-MYST	Objects whose function or material is a mystery	Wotsits, Cret
OTH-VIDT	Puzzles whose existence is only theoretically possible.	Such as 4d p can ONLY be puter
OTH-SET	Sets of Puzzles of Mixed Type	Compendium
OTH-PEND	PENDING CLASSIFICATION	Puzzles await

АМВ-РОВЈ	Paradoxical Objects (Objects that apparently cannot be made)	
AMB-VANI	Vanishing Images	"Vanishing L paradox
AMB-DIST	Distortions	Anamorphic p
AMB-ARCH	Archimboldesque Objects	Pictures and made up froobjects.
AMB-HIDD	Hidden Image Pictures (no manipulation required)	Devinettes (c the Difference grams
AMB-HMAN	Hidden Image Pictures (Ma- nipulation Required)	"Naughty But Pig", Needir Soot on ungla
AMB-TURN	Pictures that require turning to show different images.	
AMB-ILLU	Perception Illusions	Optical Illusio

EPH-SHAD	Shadow effects	Hold to light ments by sh Wiggle-Wogg
EPH-HTL	Images revealed by Holding to Light	
EPH-MICR	Images & words concealed by extreme smallness	Micro printing
EPH-MOIR	Effects produced by moire patterns	-
EPH-HOLO	Holograms	Holograms of selves
EPH-ANAG		Requiring red either 3D or r
EPH-STRP	Strip Pictures (Different views from different angles)	Framed strip ent views
EPH-OTH		Non-rebus he
XXX-DEL	Deleted Record	Database use lection, sold o
XXX-XXX	Lost records	Database use ated Acquisiti
© Copyrio Hordern.	ght 1999 James Dalgety	& Edward

Puzzle Classification by Jerry Slocum

Jerry Slocum, the famous puzzle collector and author of many puzzle books classifies mechanical puzzles the following way.



1

rings, etc.)

1.4 Matchstick puzzles

Take-Apart Puzzles - Taking the object apart or open is the puzzle

Trick or secret opening puzzles (Japanese trick boxes, puzzle boxes, etc.)

Secret compartment puzzles (Finding &

Put-Together Puzzles - Putting the ob-

2-Dimensional assembly puzzles (Tangrams, jigsaw, pentominoes, etc.)
3-Dimensional assembly puzzles (Soma, box packing, pentacubes, etc.)

Miscellaneous put-together puzzles (In-1.3 stant Insanity, magic squares, puzzle

iect together is the puzzle

Kamei, etc.)

trick knife, etc.)

Trick locks & keys (Open the trick lock with hidden keyhole, etc.)

Trick matchboxes (Open the trick matchbox/matchsafe, etc.)

Trick hives (Open or close blade of the

2.2 opening the secret compartment.

3. Interlocking Solid Puzzles - Disassembly & assembly to solve the puzzle

Figural (Animals, people, objects, vehicles, etc.)

3.2 Geometric objects (Cube, sphere, etc.)

3.3 3-Dimensional jigsaw puzzles (Egg, furniture, sphere, block, animal, etc.)

Burr puzzles (6 piece burr, Altekruse, etc.)

| 3.4 etc.)
| Keychain (People, animals, vehicles, animals, vehicles, made of plastic with keychain, etc.)

Cast iron & sheet metal puzzles (Cast 4.1 iron ABC, 3 snakes, Bootlegger & his flask, etc.) Wire puzzles (Chinese rings, 3 horseshoes, folding cross, etc.) String puzzles (Bar & 2 rings, buttonhole, Cherry cheat made of leather, etc.) 4.4 Miscellaneous disentanglement puzzles Sequential Movement Puzzles - Moving 5 parts of the puzzle to a goal is the puzzle Solitaire puzzles (Remove pegs, counters, marbles, etc.) Counter puzzles (rearange pegs, counters by jumping, etc.) Sliding Piece Puzzles (2D & 3D, Dad's 5.3 puzzle, 15-puzzle, etc. with empty spaces) Rotating cube-type puzzles (Rubic's 5.4 cube. Pyramix, etc. with no empty spaces) Maze & route puzzles (16/1 maze, Oskar's Cube, Pike's Peak, etc.) Misc. Seguential Movement Puzzles (Tower of Hanoi, etc.) 5.7 Mazes and Labyrinths for People Dexterity Puzzles - Manual dexterity is 6. primary to solve the puzzle 6.1 Throw & catch (Cup & Ball, Bilboquet, etc.) Rolling Ball puzzles (R. Journet, Glass top dexterity, etc.)

3.6 Miscellaneous interlocking solid puzzles

Disentanglement Puzzles - Disentangle

& re-entangle to solve the puzzle

	Maze dexterity puzzles (Flat, cube, cylin- 6.3 der dexterity maze with 1 or more balls etc.)		
	6.4 Miscellaneous dexterity puzzles		
7.	Puzzle Vessels - puzzle jugs & mugs,		
Ĺ	Cadogan teapots, Chinese wine pots etc.		
	Vanish Puzzles - Lovd's Get Off the Earth.		

rth. Vanishing Leprechauns, etc.

9. Folding Puzzles - Flexagons, etc. 10. Impossible Objects - Arrow through Coke bottle, Harry Eng bottles, etc. 11. Other Mechanical Puzzles

Edition May 2000.

Source: Directory of Puzzle Collectors by Jerry Slocum, 4th

Epilogue

This book was generated as a learning exercise on how one can create an ePub book automatically from an OpenOffice spreadsheet where all the information about the puzzles is stored. Here is a list of the tools and most helpful websites used to create this Puzzlography.

- ePup related information and tools
 - Epub Format Construction Guide by Harrison Ainsworth
 - Website: http://www.hxa.name/

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