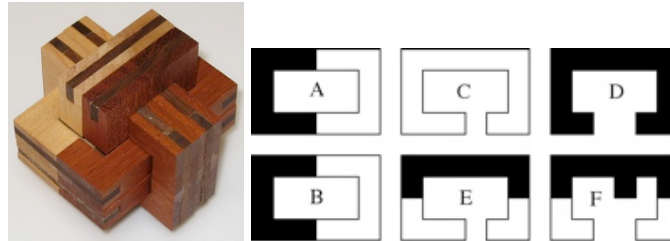


# Chocolate Dip Burr



Designed (with a computer) by Bill Cutler and Frans de Vreugd 2001, level 13.  
 (Hard Maple and Jatoba, 2.25 inches)

Two 1x4x6 pieces in each dimension. Making top dark wood and the bottom light wood makes the level 13 solution unique. The number of "holes" (internal voids) is 13 because the volume of assembled shape if it was solid is 104, and adding up the volume of the six pieces gives 91. Here are sheets that came with the puzzle (copyright by and courtesy of Bill Cutler).

## Chocolate Dip Burr

In 2001 Bill Cutler and Frans de Vreugd researched the family of Six Board Burrs (see bottom right). Theoretically there are 4096 possible pieces, after removing duplicates and non-usable ones 219 pieces remain. All combinations of six of these were calculated and resulted in no less than 14,563,061,989 assemblies. This particular set of pieces has a level 13 solution, the highest level found. The chocolate dip colouring makes the solution unique.

This puzzle was made from Hard Maple (light wood) and Jatoba, with decorative Walnut splines. It was produced by Puzzlecraft, Texas USA, ([www.puzzlecraft.com](http://www.puzzlecraft.com))

Design: Bill Cutler & Frans de Vreugd, © Bill Cutler

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1(1) A~2	2(2) F~1	3(3) A~1	4(4) CD~1	5(5) B~2	6(6) CD~1	7(7) A~1	8(8) F~1	9(9) A~2	
10(10) F~1	11(11) CDE~1	12(12) AF~2	13(13) F~OUT	1(14) C~OUT	1(15) E~1	2(16) E~OUT	1(17) A~3		
2(18) A~OUT	1(19) D~1	2(20) D~3	3(21) B~OUT						

ASM363 Level 13-1-2-2-3 (21 moves)

CHOCOLATE DIP BURR  
BILL'S EXCHANGE (2 COLOURS)