Woodcarving by Numbers is a simple to follow programme that guides woodworkers of all skill levels to become competent woodcarvers. Available as a tool and DVD package, simply match your carving tools to the numbered profile chart, and follow the step by step guidance through each project. Watch and learn the Significant Six Carving techniques in the 'Woodcarving Foundation Skills' DVD and work through the various projects, graded in difficulty, designed to put your skills to the test. The ultimate goal is to create designs of your own to add a unique point of difference to your woodworking projects.

Flat Carving

This particular style of carving, known as ‘flat carving’ is commonly found decorating furniture from the Jacobean period (1603-1688). The designs are varied and although sometimes of a simplistic appearance, can be used for many applications.

The style of carving suits both traditional and contemporary designs, and results can be achieved quickly. Importantly, this project will help to drum in the ‘significant six’ techniques, as featured in a separate tutorial and ‘Foundation Skills DVD. This design could be used to decorate rails of furniture, as a design to decorate a panel, or lid for a box. The objective of this style is to reduce the background of the timber to leave the surface completely flat and expose the design. The final appearance of the carving is enhanced if the surface remains clean, with crisp edges to the design. Aim for the perimeter cuts of the design to be ‘set in’ at 90 degrees to the timber’s surface.

Try to avoid rounding over the surface edges of the design, which will be helped if you avoid an inside bevel on the tools. Make sure your lines flow without awkward ‘elbows’, and remove all fragments of timber from the decoration as you go.

Please refer to the Significant Six Techniques tutorial or watch the Foundation Skills DVD for safety and guidance with your techniques.

Figure 1

Alternatively enlarge the drawing with a photocopier or simply employ the old fashioned method of putting pencil to paper.

A handy tip is to draw the design onto stiff card, or trace it on using carbon paper. Then, cut strategically-located sections from the card to create a stencil, Photo 2.

Step 1. The Drawing

Enlarge the diagram in Figure 1 so that each square of the grid measures 20mm. Achieve this by scanning in the image and enlarging the design using a computer.

Photo. 1

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It is, therefore, worth taking time to get your drawing as accurate as possible.
You may find it helpful to shade the material you intend to remove. This will prevent you from removing the wrong parts of the design.

2. Timber preparation
A common timber for this early style of carving was oak, but whichever species you choose, ensure that it is planed flat and sanded smooth before marking the design onto the surface.

3. First cuts
Now you can begin to ‘set in’ vertical cuts which follow the perimeter lines of the design. Each cut should be at 90º to the timbers surface.
Try to make your first cut on the waste side of the design. You can follow with precise cuts on the line later.
Use the various profiles from your Foundation Skills tools to ‘set in’ the design. Hold each tool in the Pinch position. Make sure you ‘Anchor’, and ‘set in’ the cut with a gentle tap from your mallet. If the profiles of your tool selection do not fit precisely you can adapt by making several cuts to follow the outline.
When using the inside of the blade to form the shape, note how the tool is held vertically to the timber in Photo 3.

4. Exposing the Design
When the entire outline has been ‘set in,’ we can begin to bring the design to life by removing the waste material from the pattern.
Use the various tools from your tool kit to cut towards the ‘set in’ cuts at a 45 degree angle or less. If you need a firmer grip on the tool try the ‘Fist position’ and remember to ‘slide’ the tool as you cut towards the set in cut. Be sure to carve on the correct side of your line, in the shaded area of your design.

For the eyelet shape on each of the central leaves, make two angled incisions with tool #5 so as to form a valley with a straight line in the centre. Use the tips of the blade in a slicing action to create a clean central cut in the valley. This is a good example of why it is important to keep the ‘tips’ of the cutting edge intact. (See Sharpening and Maintenance Tutorial or watch the Foundation Skills DVD)
Now form the small holes in the centre of the border motif. A drill bit can often pull fibres from the timbers surface. Instead, you can make a simple tool that will give you a smooth 'burnished' hole. Select a nail with the desired diameter and round over the point using a grinder. Cut off the head and put the nail into a drill chuck or hand drill. At a low speed use various grades of abrasive paper to create a polished dome. The polished dome can be used in the same way as a drill bit to form a shallow hole. The finished result will be smooth, clean, and polished.

Finally, wrap a fine grade abrasive paper around a sanding block, and give the work a light sanding to clean the work ready for polishing.

Using the same techniques, have a go at some of these alternative designs, Figure 3 & 4.

Figure 3

Figure 4

About the Author:
Mike Davies is an accomplished craftsman, who has completed projects for royalty, national trusts and private collectors alike. He has surveyed and restored works by many of the great designers and carvers from the past. As a qualified teacher, he originally developed his 'Woodcarving by Numbers' educational system in 1994. It was created to help woodworkers of all skill levels to master the art of woodcarving. Since then, his system has been published in magazines and books. It has been televised and used to teach students in schools and colleges around the world. The information contained within this document, forms part of a DVD and tool package, which has been developed in cooperation with many of the world's leading carving tool manufacturers.

Important Information and Disclaimers:
learnabout.TV and Mike Davies assume no responsibility or liability for injuries, accidents or damages resulting from the information conveyed herewith. The information or instructions are provided as general guidelines only and demonstrate woodworking activities performed by skilled and experienced craftspeople. These techniques can be dangerous. If you practice them, proceed carefully and at your own risk. The Sweep Profile Reference Chart is provided as a simple referencing system for this series of Woodcarving by Numbers tutorials. It does not refer to references used by the London Pattern Guide, Sheffield List or Continental System. Please note that due to the printing process there may be variations between the sweep chart and actual tool profiles.
**RPCV12A 12 Piece Carving Chisel Set, Educational Booklet & DVD**

This unique woodcarving package of 12 carving tool profiles, instructional DVD and booklet represents incredible value. Ideal for woodworkers of all skill levels from the complete novice to the seasoned professional. Each tool is manufactured from spring alloy steel, developed to retain its cutting edge and resistance to corrosion. The ergonomically shaped handles are suitable for both hand and mallet work and a substantial tang secures the blade into the handle to ensure strength and durability, locked in place by a ferrule preventing the handle from splitting.

The DVD features British Woodcarver Mike Davies, busy at work on a large carving project in New Zealand. Hailed by local media as ‘A gift to the Nation’, the work is followed by national television and newspapers and is beamed via live webcams to viewers around the world. Mike takes time away from the project to share his simple to follow, step-by-step woodcarving wisdom in the workshop. He demonstrates the ‘Significant Six’ techniques that form a solid foundation of skills for successful woodcarving. By following this proven system, the aspiring woodcarver will soon be creating a collection of attractive projects and designs using this comprehensive selection of tool profiles.

**RRP $139.99**

**RPCV130 Carver’s Vice**

The tried and tested design of this vice makes it an extremely solid and user-friendly base for carving whilst offering superb value for money, making it an ideal choice for new and experienced carvers alike.

**RRP $79.99**

- **Pivoting Support Arm**
  This provides further flexibility of positioning.

- **Secure Clamping**
  The cast iron clamp jaws provide more than enough holding power for heavy use.

**RPCVM15 15 oz Carving Mallet**

A good quality carving mallet is an essential part of the Woodcarvers toolkit. Unlike a square faced mallet, which is generally used to strike a tool vertically with the mallet face at 90° to the tool handle, the rounded face of the carvers mallet allows solid contact to be made when the carving tool is held at various angles to the work. Weighing 15 oz, this mallet is an ideal general purpose tool, suitable for delicate work as well as for heavier operations such as roughing out.

**RRP $29.99**

- **Made from Solid Beech**
  The close grained Beech provides the ideal weight, hardness and strength.