This book may seem a little unnecessary to many people. With all of the great books about knots already on the shelves, why would anyone want to make their own? There are three reasons. First, there is a lot of incorrect and vague information out there, some of which is even found in official Boy Scout publications. Since a knot is, to coin a phrase, either exactly right or hopelessly wrong, there is no room for ambiguity At times human life may literally hang in the balance, relying only on the strength of a rope and the precision of some basic knots as a safeguard against arriving at the bottom of a cliff too quickly and in a pulpy red heap. Second, these graphics were developed as teaching aids for Cub Scouts, boys with small hands and fleeting attention. It seemed reasonable that the task would be easier with drawings that were very clear and very large. In fact the guiding principle behind this book was that the pictures be large enough to lay on a table with the knot tied right on top; sort of like tracing a drawing. In practice that has dubious value. It works well for some boys, not at all for others. When one ties on top of a picture, one cannot see the picture, at least not very well. The lines in the graphics are $3 / 8^{\prime \prime}$ wide and we used $1 / 4$ " rope, so it wasn't as bad as it may seem. Still it was easier for some boys to tie "in the hand" anyway. And the last reason? We're Boy Scouts. We make our own stuff. That's just the way it is.

Terms in knotting are sundry and quite old. Hitches, knobs, sinnets, lashings, there is certainly no lack of cryptic vernacular that requires definition, enough to fill a book of its own, and too much to present here. We'll stick to a few of the basics, starting with, "W hat is a knot?" The author Clifford Ashley defines knots as "all complications in cordage, except accidental ones." It is doubtful that a better explanation could be made, but such a broad statement requires further categorization. Many categories could be named, but this book uses only eight:

- BENDS: Used to tie a rope to another rope.
- HITCHES: Used to tie a rope to an object other than another rope.
- STOPPERS: A termination made in the end of a rope to stop it from unreeving (fraying) or to prevent it from passing through an opening, like a pulley or another knot.
- LOOPS: Tied to form loops.
- BINDING S: General tying and bundling. Used to close things or hold things together. Examples are closing the neck of a bag or wrapping gifts. Tying your shoes uses a binding knot.


## Troop 396 Knot Book

- SPLICES: Rope is unlaid and woven back into its own strands or the strands of another rope. Splices are a heck of a lot stronger than knots.
- LASHINGS: Bind things together with multiple turns. If you made a ladder by tying sticks together you would use lashings at the places where the sticks cross. Categorically these are much like binding knots, except there are more turns.
- DECORATIVE KNOTS: Mostly they look good, like macramé, buttons, and sinnets. Usually they are not structural.

In addition to those categories, a sub-category often seen here is "running knot." These are normally, but not necessarily, loops or hitches. Running knots have the distinction of sliding along part of the rope after being tied. In other words the knot can be moved.

To understand knots it is necessary also to understand a bit about rope. Knowing these terms will make it easier to interpret the narratives on the plates.

- END: Either end of a rope.
- STANDING PART: The inactive portion. Typically that which one would describe as being above the knot.
- BIGHT: An untied loop or open loop. "Taking a bite" means folding a portion of a rope back on itself. One coils a rope by taking bites and laying them beside each other in the opposite hand. The term is also used to describe the middle of the rope.

Knots were being developed all over the world for thousands of years before anyone thought about writing down names for them or making up rules, so there is a great deal of contradiction. There are even knots that have different names depending on how they are tied or what type of material is used, the fact that they look exactly alike notwithstanding. Because this is such a confusing and undisciplined science, it's just a matter of time until some veteran knot tier finds something on these pages with which he disagrees. We defer judgment herein to Clifford W. Ashley, who authored the Ashley Book of Knots, which was published in 1944. The book has more than 600 pages and literally thousands of illustrations. It is widely accepted as the most thorough work on the subject and was well thumbed to produce the following plates. Anyone who wishes to contest a point without an "Ashley" reference will have to make an exceedingly strong case. After all, there have to be standards. Without them there are only opinions.





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FORMS A V-NOTCH THAT CAN INTERFERE WITH THE RUNNING OF THE ROPE IN SITUATIONS SUCH AS HAULING A HEADSAIL SHEET ROUND

A PROPER BOWLINE HAS THE END INSIDE THE LOOP. WHEN TIED WITH THE END OUTSIDE THE LOOP IT PRODUCES AN INFERIOR KNOT CALLED BOWLINE KNOT WAS EMPLOYED TO CONNECT THE BOW LINE TO THE SAIL.






