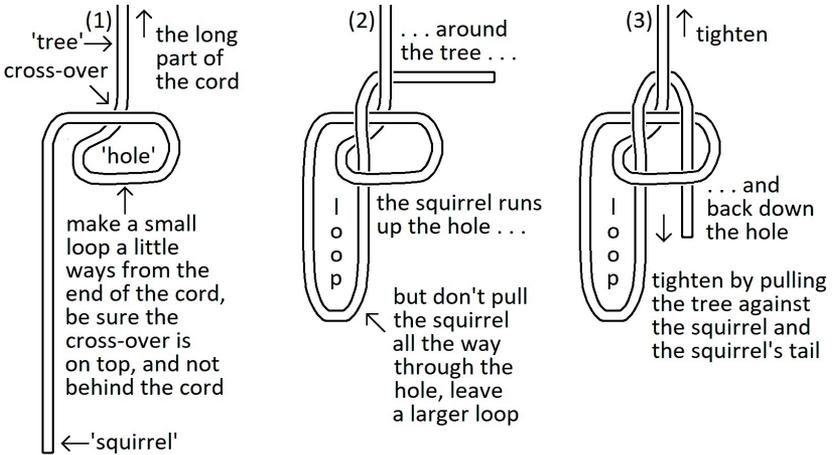


## KNOTS

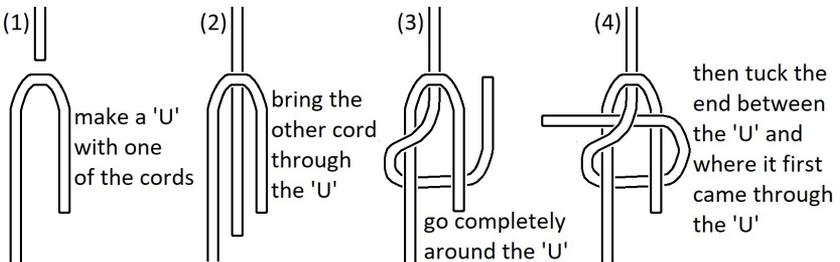
Based on their uses, there are three different types of 'knots.' If you know at least one of each of these three types, you should be able to get by in most situations. (Note: All of the knots in this section are shown in 'expanded,' or un-tightened form.)

1. Knots —are tied with just one end of a cord
2. Bends —are used to tie two cords together
3. Hitches —are used to tie a cord to something else such as a pole

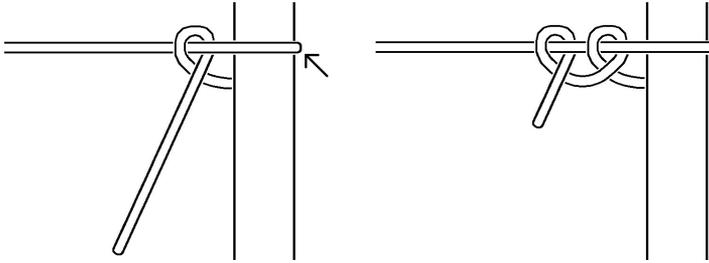
**Bowline** —used to tie a loop in the end of a cord.



**Sheet Bend** —used to tie two cords together. This is the same as the bowline, and can be tied the same way. However, the classic way to tie it is shown here. If one cord is larger, make the 'U' with the larger cord.



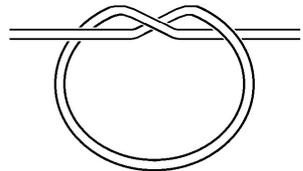
**Two Half-Hitches** —used to tie a cord to something else, such as a pole.



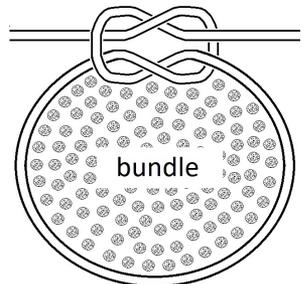
- (1) Pull the cord snugly around the pole.
- (2) Hold the cord against the back of the pole, (arrow), to keep it tight.
- (3) Loop the end of the cord around the part of the cord that is coming to the pole, and pass the end between the cord and the pole.
- (4) Tighten —this makes one 'half-hitch.'
- (5) Note which way the end of the cord is going around the part of the cord that is coming to the pole and loop the end around again the same way —don't switch directions!
- (6) Pass the end in between itself and the first half-hitch to make the second half-hitch, and tighten.

**Square Knot** —is used to tie off bandaging, or to tie bundles together. It is essentially two 'overhand knots,' tied in opposite directions one on top of another: "Left over right, then right over left." (If the overhand knots are tied in the same direction, you'll end up with a 'Granny Knot' —which has its uses, but it can be much more difficult to untie.)

Overhand Knot



Square Knot

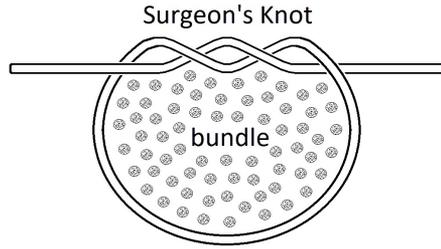


Note: **DO NOT** use the Square Knot as a 'bend' to tie two ropes together as it can easily slip —which has earned it the name, 'Death Knot.'

## Other Useful Knots

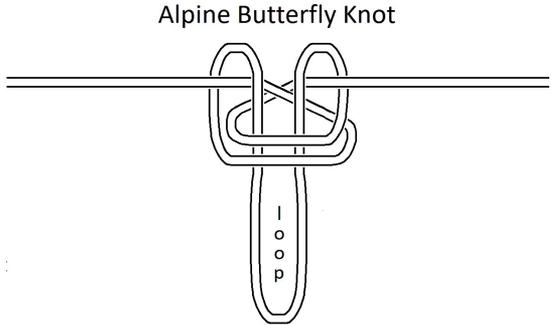
### • Surgeon's Knot

—useful for first aid applications and to tie up the bundles when making blanket mats..

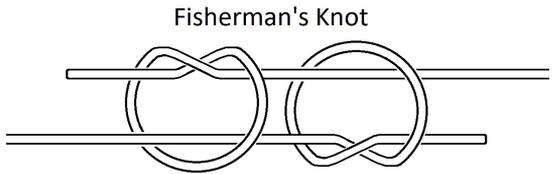


### • Alpine Butterfly Knot

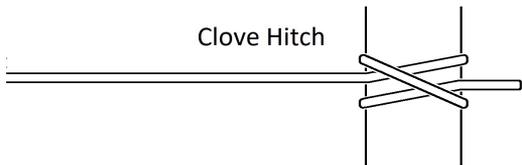
—is used to tie a loop in the middle of a cord without having to use either end of the cord to tie it.



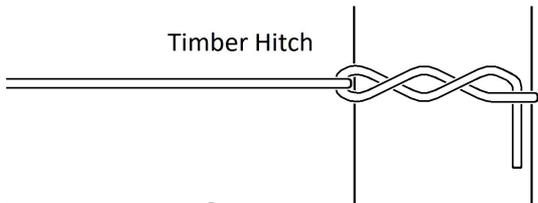
• **Fisherman's Knot** —is actually a 'bend.' It is probably the smoothest, least 'lumpy' way to tie two cords together. Note that it is simply two interlocking Overhand Knots. Once tightened, it can be extremely difficult to untie.



• **Clove Hitch** —is essentially the same knot as Two Half-Hitches, except that it is tied around the pole instead of around the cord itself.



• **Timber Hitch** —is useful for dragging logs and to start lashings. It is easy to tie, and to untie.



### • Taut Line Hitch

—makes it possible to tighten or loosen 'guy ropes.'

