



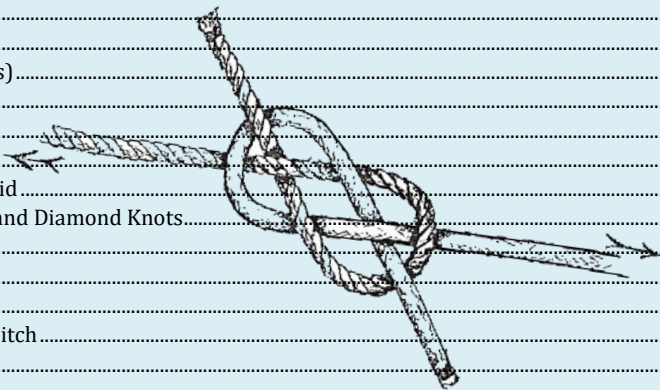
# Knots – Marlinespike Links

Compiled by Charles Kenyon, Hooper Sailing Club, Madison, Wisconsin

The hyperlinks in this document are active even though not underlined. The Table of Contents contains hyperlinks to places in this document. This document is a supplement for the Marlinespike Seamanship lessons. This contains internal pdf bookmarks. *This is a work in progress: Version 24.61. I suggest that you routinely get an update.*

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## Introduction

This list was originally written as a supplement to the Marlinespike Seamanship A (Knots and Lines) lesson at the Hoofer Sailing Club in Madison, Wisconsin. If there are any erroneous links, please notify me, [Charles Kenyon](#), by email. *The sailing club is in no way responsible for opinions expressed herein.*

This list has “grown like Topsy.” It started as one page. The first part “Knots, Bends and Hitches” contains various links on the knots taught in the lesson. The remainder is miscellaneous links, some are organized by source. I’ve added a section on [splices and soft shackles](#). Those are the subject of the Marlinespike B and C lessons. We are adding Dyneema® and paracord lessons as well.

I strongly urge you to download both the [Ashley Book of Knots](#) and the Samson Ropes [Rope User’s Manual](#) (links at the end).

I am a member of the International Guild of Knot Tyers. This is not one of their publications, though. See [below](#) for more information.

More will be added, I’m sure. A [link to the latest compilation](#) is found at the end.

## For the beginner:

Focus on the basic knots, bends and hitches. Learn one way to tie a knot and practice that method until it becomes a part of your muscle memory. The Club’s Marlinespike A lesson teaches how to tie basic knots, but you will not remember them without practicing them. If you forget them, you can lose a hard-earned rating on one or more of our boats if an instructor sees that you do not know what you need to know.

Do not worry about fancy or fast; worry about getting the knot tied right. Worry about being able to tie the knot when it is cold and raining or dark. See if you can tie it behind your back!

- Practice
- Practice
- Practice

Grab a piece of line or rope (or even a shoestring) and practice.

- Practice while you are watching TV.
- Practice while you are riding the bus.
- Practice between classes.
- Practice, practice, practice.

A good overview book for beginners is the [Everything Knots Book](#) by Randy Penn. Start with the links to videos and pdfs, first, before you buy a book, though.

## All About Rope

This is the best page on different kinds of rope that I’ve found:  
<https://sites.google.com/site/catalaocml/home/sistemas-apoio-navegacao/ropes>

Beginners Introduction to Rope and Cordage (video):  
<https://www.youtube.com/watch?v=YByuTkJy-nQ>



# Hooper Sailing Club



Rope Strength Tables (Denver Rope) <https://denverrope.com/rope-strength-guide/>

Knot and Rope Terminology <https://www.youtube.com/watch?v=LAEduewMjb0>

Rope and Cordage Basics [https://www.youtube.com/watch?v=cZdsx7\\_oh4U](https://www.youtube.com/watch?v=cZdsx7_oh4U)

Types Of Rope: Natural and Synthetic <https://www.theknotsmanual.com/rope/types-of-rope/>

Rope Care Advice – Marlow Ropes <https://www.marlowropes.com/performance/rope-care-advice/>

What is Manila Rope? <https://www.theknotsmanual.com/rope/types-of-rope/manila/>

## Knots, Bends and Hitches

Knots can be categorized into **Knots** (End knots, Binding Knots, and Loops – rope being tied to itself), **Bends** (tying two lines together), **Hitches** (Tying directly to an object), and **Lashings** (tying two objects together). *Lashings are only used on a sail boat in emergencies, we are leaving those for another day.*

Wilderness Knots

[Wikipedia on Knots](#)

## Excellent Video on Seven Essential Knots

This is a video that covers seven of the knots we reviewed in Marlinespike A. A minor flaw is that he gets the terms wrong. The standing end is the part that is not used in tying the knot. The working end is the part that you use to tie the knot. There is no “loose end.” Nevertheless, a great demonstration. <https://www.youtube.com/watch?v=3X8drKsdf5E>

**Great Sailing Knots (Sailing Virgins – Fun)** <https://youtu.be/o8Vx6m8n4F4>

## Beginner’s Guide to Knots

I would not necessarily call this a beginner’s guide, but it is an interesting take on a progression from the square knot and cow hitch through a trucker’s hitch. Worth a watch.

<https://www.youtube.com/watch?v=tK-UebImvwA>

**7 Knots You Need for Your ASA 101 Class** [https://www.youtube.com/watch?v=UEqUt\\_QrUnQ](https://www.youtube.com/watch?v=UEqUt_QrUnQ)

**Learn Five Knots for Sailing** – Emily & Clark’s Adventure

[https://www.youtube.com/watch?v=fvh\\_LWBaomg](https://www.youtube.com/watch?v=fvh_LWBaomg)

*Below are direct links, but the entire video is under 13 minutes and worth watching.*

Figure 8, Clove Hitch, Alpine Butterfly, Zeppelin Bend & Bowline; Qualities of a Good Knot

**Knots that Count** - [https://www.youtube.com/watch?v=Wjyuk\\_ibU3A](https://www.youtube.com/watch?v=Wjyuk_ibU3A)

**The only 4 knots you need to know... maybe!** - <https://www.youtube.com/watch?v=61MmXi9mv70>

Bowline, Midshipman’s Hitch, Clove Hitch, Lightermans Hitch for Bollards, stopper knots

**Five (camping) knots everyone should know** <https://www.youtube.com/watch?v=KbLQoYIRfvc>

Bowline, Trucker’s Hitch, Square Knot, Prussik Knot [Bend], Marlinespike Hitch



# Hooper Sailing Club



Overhand Knot – do NOT tie a single overhand knot in a sailing line upon pain of flogging!



3 ways to tie an overhand knot	<a href="http://www.wikihow.com/Tie-an-Overhand-Knot">http://www.wikihow.com/Tie-an-Overhand-Knot</a>
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The overhand knot is used as the start for some other knots, though.

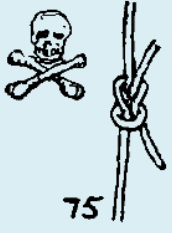
## Stopper Knots

How to Tie a Figure 8 Knot	<a href="https://www.youtube.com/watch?v=0CnYmY_B938">https://www.youtube.com/watch?v=0CnYmY_B938</a> 
How to tie a Stevedore Knot	<a href="https://www.youtube.com/watch?v=vNbc5hU6uXI">https://www.youtube.com/watch?v=vNbc5hU6uXI</a>
Stevedore Stopper (19 sec.)	<a href="https://www.youtube.com/watch?v=dAAXS4oIslg">https://www.youtube.com/watch?v=dAAXS4oIslg</a>
Double-Overhand Knot	<a href="https://www.animatedknots.com/double-overhand-stopper-knot">https://www.animatedknots.com/double-overhand-stopper-knot</a>
Animated Knots Stevedore Knot	<a href="https://www.animatedknots.com/stevedore-stopper-knot">https://www.animatedknots.com/stevedore-stopper-knot</a>
The Most Useful Figure-8 Knots	<a href="https://www.youtube.com/watch?v=vdBWBbrjOio">https://www.youtube.com/watch?v=vdBWBbrjOio</a>
Stopper Knots - 5 Super Easy & Useful Options	<a href="https://www.youtube.com/watch?v=9dGLbT8pprI">https://www.youtube.com/watch?v=9dGLbT8pprI</a> Overhand, Double Overhand, Figure 8, Stevedore, Ashley's
See also <b>Ashley Stopper Knot</b>	<a href="https://www.animatedknots.com/ashley-stopper-knot">https://www.animatedknots.com/ashley-stopper-knot</a>
Ashley Stopper Knot Tutorial	<a href="https://www.youtube.com/watch?v=C8Txxs2hyRo&amp;t=72s">https://www.youtube.com/watch?v=C8Txxs2hyRo&amp;t=72s</a>
Ashley Stopper Knot (Sebring)	<a href="https://www.youtube.com/watch?v=MfjNs0K5AzU">https://www.youtube.com/watch?v=MfjNs0K5AzU</a>
Ashley Stopper Knot	<a href="https://www.youtube.com/watch?v=2syCRm6zdAE">https://www.youtube.com/watch?v=2syCRm6zdAE</a>
Oysterman's (Ashley Stopper)	<a href="http://www.handy-mariner.com/tie-knots-oystermans-knot/">http://www.handy-mariner.com/tie-knots-oystermans-knot/</a>
Ashley Stopper Knot (21 sec.)	<a href="https://www.youtube.com/watch?v=vC5nYvbBk6E">https://www.youtube.com/watch?v=vC5nYvbBk6E</a>
Ashley Stopper Knot	<a href="https://www.youtube.com/watch?v=pIvR8fkLiqI">https://www.youtube.com/watch?v=pIvR8fkLiqI</a>
Oysterman's Stopper Knot	<a href="https://www.youtube.com/watch?v=RZvHphSvzYE">https://www.youtube.com/watch?v=RZvHphSvzYE</a>
<i>I really like the Ashley Stopper Knot (Oysterman's Stopper) and think it is best in most situations. However, it can be tricky to tie. If in doubt, use one of the other stopper knots.</i>	

## Reef Knot – Square Knot

<p><b>Reef Knot – Square Knot</b></p> <p><i>Should not be used to tie two different lines together despite picture! See Sheet Bend (Becket Bend).</i></p>	
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Square Knot	<a href="https://www.youtube.com/watch?v=eKatRJYv2EA">https://www.youtube.com/watch?v=eKatRJYv2EA</a>
The Square Knot	<a href="http://addbalance.com/Sail/Knots/Square%20Knot.pdf">http://addbalance.com/Sail/Knots/Square%20Knot.pdf</a>
How to Tie the Square Knot	<a href="https://www.youtube.com/watch?v=5x4NcQaphSI">https://www.youtube.com/watch?v=5x4NcQaphSI</a>
The once Illegal Reef Knot	<a href="https://www.youtube.com/shorts/M4l-hyMixas">https://www.youtube.com/shorts/M4l-hyMixas</a>
	<p><b>Ashley Book of Knots – Warning about using the Reef Knot as a Bend.</b>          “One of the best but most-misused knots is the REEF or SQUARE KNOT. Employed as a binding knot to reef or furl sails or to tie up parcels, it is invaluable. But employed as a bend (to tie two rope ends together), the REEF KNOT is probably responsible for more deaths and injuries than have been caused by the <i>failure of all other knots combined.</i>”  <i>The Ashley Book of Knots, p. 18.</i></p>

## Bowline Knot

<p><b>Bowline Knot</b></p> <p>The “King of Knots”</p>	 <p><i>This is a very important knot!</i></p>
Grog’s Animated Knots – Bowline video:	<a href="https://www.youtube.com/watch?v=YXRnPEs0Qec">https://www.youtube.com/watch?v=YXRnPEs0Qec</a>
Slip Knot (Jedi) Method of Tying the Bowline Knot	<a href="https://www.youtube.com/watch?v=CmwKBA3XMR0">https://www.youtube.com/watch?v=CmwKBA3XMR0</a> <a href="https://www.youtube.com/watch?v=4SHas_YRczk">https://www.youtube.com/watch?v=4SHas_YRczk</a> <a href="https://www.youtube.com/watch?v=z3ZVjNOFP18">https://www.youtube.com/watch?v=z3ZVjNOFP18</a>
Easiest and Quickest Bowline Ever (The Sailor Method)	<a href="https://www.youtube.com/watch?v=48U0u6H8h3g">https://www.youtube.com/watch?v=48U0u6H8h3g</a>
<b><i>Learn one of the above first until you can do it without looking, then go on to elaborations:</i></b>	
How to tie a bowline knot for sailing	<a href="https://www.youtube.com/watch?v=-rGROTyDv88">https://www.youtube.com/watch?v=-rGROTyDv88</a>
How to Tie a Proper Bowline Knot Some terminology is off but very good demonstrations of various methods	<a href="https://www.youtube.com/watch?v=ozskWrDM-F4">https://www.youtube.com/watch?v=ozskWrDM-F4</a>
Quick and Easy Bowline Overhand and Slipknot methods	<a href="https://www.youtube.com/watch?v=x93rUzCeV9w">https://www.youtube.com/watch?v=x93rUzCeV9w</a>
The Fastest Way to Tie a Bowline – Snap	<a href="https://www.youtube.com/watch?v=QXQ4dLJPYbs">https://www.youtube.com/watch?v=QXQ4dLJPYbs</a>
Bowline and 15 Bowline Variants (41 min) Includes Scott’s Locked Bowline, Double Bowline, Sailor Method and Jedi Method	<a href="https://www.youtube.com/watch?v=cBDgxY2pG90">https://www.youtube.com/watch?v=cBDgxY2pG90</a> Triple Bowline, Yosemite Bowline, Portuguese Bowline, French and Spanish Bowline
Tugboat Bowline Knot (not a bowline!)	<a href="https://www.youtube.com/watch?v=1yf9pF-VbLQ">https://www.youtube.com/watch?v=1yf9pF-VbLQ</a>
How to Tie a Piling Bowline Knot in 10 sec.	<a href="https://www.youtube.com/watch?v=DetspxEunyq">https://www.youtube.com/watch?v=DetspxEunyq</a>
Triple Bowline – useful for rescue	<a href="https://www.youtube.com/watch?v=m3M99yydkkg">https://www.youtube.com/watch?v=m3M99yydkkg</a>
Triple Loop Bowline	<a href="https://www.youtube.com/watch?v=Tou3byG5pGg">https://www.youtube.com/watch?v=Tou3byG5pGg</a>



<p><b>Bowline Knot</b> The “King of Knots”</p>	 <p><i>This is a very important knot!</i></p>
<p>How to Tie the Triple-Loop Bowline in Under 60 Seconds</p>	<p><a href="https://www.youtube.com/watch?v=J4b_ynh0zd4">https://www.youtube.com/watch?v=J4b_ynh0zd4</a></p>
<p>Bowline on a Bight – 2 min</p>	<p><a href="https://www.youtube.com/watch?v=wmwvrZYTmv4">https://www.youtube.com/watch?v=wmwvrZYTmv4</a></p>
<p>Bowline on a Bight – Quick and Easy Knot</p>	<p><a href="https://www.youtube.com/watch?v=YQk0Y1pA3h0">https://www.youtube.com/watch?v=YQk0Y1pA3h0</a></p>
<p>The Riddle of the Bowline</p>	<p><a href="https://www.youtube.com/watch?v=BiqHyu1ixVI">https://www.youtube.com/watch?v=BiqHyu1ixVI</a></p>
<p>How to tie and teach the bowline – good job with rabbit and hole mnemonic</p>	<p><a href="https://www.youtube.com/watch?v=a_CwsRKZOJE">https://www.youtube.com/watch?v=a_CwsRKZOJE</a></p>
<p>How to Tie Bowline Survival Knot (45 sec)</p>	<p><a href="https://www.youtube.com/watch?v=c3gWAQ_FEa4">https://www.youtube.com/watch?v=c3gWAQ_FEa4</a></p>
<p>One-Handed Bowline – Lifesaving Knot</p>	<p><a href="https://www.youtube.com/watch?v=H85cMlvwwXA">https://www.youtube.com/watch?v=H85cMlvwwXA</a></p>
<p>Animated Knots One-handed</p>	<p><a href="http://www.animatedknots.com/bowlineonehand/index.php">http://www.animatedknots.com/bowlineonehand/index.php</a></p>
<p>One-Handed Bowline Around the Waist</p>	<p><a href="https://www.youtube.com/watch?v=iEsPbgzn174">https://www.youtube.com/watch?v=iEsPbgzn174</a></p>
<p>One-Handed Bowline</p>	<p><a href="https://www.youtube.com/watch?v=L04gzw2mXEQ">https://www.youtube.com/watch?v=L04gzw2mXEQ</a></p>
<p>What you never knew about the bowline</p>	<p><a href="https://www.youtube.com/watch?v=FbhM-IdvP4M">https://www.youtube.com/watch?v=FbhM-IdvP4M</a></p>
<p>Five (useful) Bowline Variations</p>	<p><a href="https://www.youtube.com/watch?v=XhzPGOq30g0">https://www.youtube.com/watch?v=XhzPGOq30g0</a></p>
<p>How to Tie a Bowline in the Dark</p>	<p><a href="https://www.youtube.com/watch?v=5bSk1rhndjU">https://www.youtube.com/watch?v=5bSk1rhndjU</a></p>
<p>Three ways to tie the Bowline Knot – IGKT Dutch / Cowboy discussion</p>	<p><a href="https://www.youtube.com/watch?v=mSDqVc_h4oU">https://www.youtube.com/watch?v=mSDqVc_h4oU</a></p>
<p>Bowline tied in different orientations</p>	<p><a href="https://www.dropbox.com/s/0czvxzrooi1upy1/Bowline%20Views.pdf?dl=0">https://www.dropbox.com/s/0czvxzrooi1upy1/Bowline%20Views.pdf?dl=0</a></p>
<p>Yosemite Tie-Off for more security</p>	<p><a href="https://www.youtube.com/watch?v=45rPqzZnszk">https://www.youtube.com/watch?v=45rPqzZnszk</a></p>
<p>Bowline part of this video</p>	<p><a href="https://www.youtube.com/watch?v=61MmXi9mv70">https://www.youtube.com/watch?v=61MmXi9mv70</a></p>
<p>Fastest Ways to Tie a Bowline (webpage)</p>	<p><a href="http://www.asiteaboutnothing.net/cr_bowline-methods.html">http://www.asiteaboutnothing.net/cr_bowline-methods.html</a></p>
<p>Fastest Way to Tie a Bowline Knot (video)</p>	<p><a href="https://www.youtube.com/watch?v=lvIRHvu2va8">https://www.youtube.com/watch?v=lvIRHvu2va8</a></p>
<p>A Better Bowline – Scott’s Locked Bowline</p>	<p><a href="https://www.youtube.com/watch?v=Qzh7kJ8k5lA">https://www.youtube.com/watch?v=Qzh7kJ8k5lA</a></p>
<p>Scott’s Locked Bowline</p>	<p><a href="https://www.youtube.com/watch?v=BHEVMngxPHA">https://www.youtube.com/watch?v=BHEVMngxPHA</a></p>
<p>How to Tie a Bowline Knot (plus variations) – note that the tail is too short</p>	<p><a href="https://www.youtube.com/watch?v=IS82ju__nyk">https://www.youtube.com/watch?v=IS82ju__nyk</a> Very good video but tail (working end) should be longer</p>
<p>Complete Guide to the Bowline Knot and its Most Important Variants</p>	<p><a href="https://www.youtube.com/watch?v=QgewPTFzJzg">https://www.youtube.com/watch?v=QgewPTFzJzg</a> (<i>needs Scott’s Locked Bowline to be complete IMO</i>)</p>




<p><b>Bowline Knot</b> The “King of Knots”</p>	 <p><i>This is a very important knot!</i></p>
<p><b>(for knot geeks)</b> Zen and the Art of Climbing</p>	<p><a href="https://zenandtheartofclimbing.com/tying-bowline/">https://zenandtheartofclimbing.com/tying-bowline/</a></p>
<p>An analysis of the structure of bowlines – Mark Gommers – 76 pages!</p>	<p><a href="http://www.paci.com.au/knots.php">http://www.paci.com.au/knots.php</a></p>

## Round Turn and Two Half-Hitches

<p><b>Round Turn and Two Half-Hitches</b></p>	
<p>How to Tie the Round Turn and Two Half Hitches</p>	<p><a href="https://www.youtube.com/watch?v=NQhgLaGs9gg">https://www.youtube.com/watch?v=NQhgLaGs9gg</a></p>
<p>Captain Grady: Tying to a Piling</p>	<p><a href="https://www.youtube.com/watch?v=7GG0r3QgBB4">https://www.youtube.com/watch?v=7GG0r3QgBB4</a></p>
<p>Round Turn and Two Half-Hitches (1:39)</p>	<p><a href="https://www.youtube.com/watch?v=M_W3nlil1Ko">https://www.youtube.com/watch?v=M_W3nlil1Ko</a></p>

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## Sheet Bend (Becket Bend)

<p><i>Use instead of square knot or reef knot whenever tying two different lines together. Carrick Bend is even better!</i></p>	
<p>Wikipedia</p>	<p><a href="https://en.wikipedia.org/wiki/Sheet_bend">https://en.wikipedia.org/wiki/Sheet_bend</a></p>
<p>The Sheetbend</p>	<p><a href="http://addbalance.com/Sail/Knots/The%20Sheetbend.pdf">http://addbalance.com/Sail/Knots/The%20Sheetbend.pdf</a></p>
<p>Double Becket Bend</p>	<p><a href="https://www.youtube.com/watch?v=JjiCQVHnzgs">https://www.youtube.com/watch?v=JjiCQVHnzgs</a></p>
<p>Double Sheetbend</p>	<p><a href="https://www.youtube.com/watch?v=pvn-06IedQ4">https://www.youtube.com/watch?v=pvn-06IedQ4</a></p>
<p>Sheetbend and Double SB</p>	<p><a href="https://www.youtube.com/watch?v=jv9xwBiWB3U">https://www.youtube.com/watch?v=jv9xwBiWB3U</a></p>
<p>Double Sheetbend – Two Tucks</p>	<p><a href="https://www.youtube.com/watch?v=gMaNUJC56Z4">https://www.youtube.com/watch?v=gMaNUJC56Z4</a></p>
<p>Sheetbend, Slipped SB, Double SB</p>	<p><a href="https://www.youtube.com/watch?v=MITXMnu8jo8">https://www.youtube.com/watch?v=MITXMnu8jo8</a></p>
<p>Sheetbend – Sailor Method Requires knowledge of bowline</p>	<p><a href="https://youtu.be/Wjyuk_ibU3A?t=1269">https://youtu.be/Wjyuk_ibU3A?t=1269</a></p>



Use instead of square knot or reef knot whenever tying two different lines together. Carrick Bend is even better!	
How to tie in under 60 seconds	<a href="https://www.youtube.com/watch?v=xwXiAJ5fq-o">https://www.youtube.com/watch?v=xwXiAJ5fq-o</a>
The Left-Hand Sheet Bend vs. The Right-Hand Sheet Bend	<a href="https://www.youtube.com/watch?v=0lhII07mTNc">https://www.youtube.com/watch?v=0lhII07mTNc</a>

## Carrick Bend – Asymmetrical for strength

<b>Carrick Bend</b>	
Carrick Bend – King of Bends	<a href="http://web.archive.org/web/20161101121648/http://web.comhem.se:80/~u77479609/Carrick%20Bend.html">http://web.archive.org/web/20161101121648/http://web.comhem.se:80/~u77479609/Carrick%20Bend.html</a>
Carrick Bend Video from above	<a href="https://www.youtube.com/watch?v=wTmwqYQI93Y">https://www.youtube.com/watch?v=wTmwqYQI93Y</a>
Knot Tying: The Carrick Bend	<a href="https://www.youtube.com/watch?v=R3-esHMjQIo">https://www.youtube.com/watch?v=R3-esHMjQIo</a>
Symmetrical/Asymmetrical Left/Right Variations	<a href="https://www.youtube.com/watch?v=D5j1XGSrNGE">https://www.youtube.com/watch?v=D5j1XGSrNGE</a>
Carrick Bend – Scoutmaster info	<a href="http://scoutmaster.org/wa-current/uploads/2013/03/carrick-bend.png">http://scoutmaster.org/wa-current/uploads/2013/03/carrick-bend.png</a>
Carrick Bend – slow motion	<a href="https://www.youtube.com/watch?v=XOkfzDkQyF4">https://www.youtube.com/watch?v=XOkfzDkQyF4</a>
Two version of the Carrick Bend	<a href="https://www.youtube.com/watch?v=OQJsshH3NJQ">https://www.youtube.com/watch?v=OQJsshH3NJQ</a>
Carrick Bend	<a href="https://www.youtube.com/watch?v=cRmCPaLoozc">https://www.youtube.com/watch?v=cRmCPaLoozc</a>
Carrick Bend – Boy Scouts	<a href="http://meritbadge.org/wiki/index.php/Carrick_bend">http://meritbadge.org/wiki/index.php/Carrick_bend</a>
Carrick Bend - Wikipedia	<a href="https://en.wikipedia.org/wiki/Carrick_bend">https://en.wikipedia.org/wiki/Carrick_bend</a>
Carrick Bend - Power Squadron	<a href="http://www.theensign.org/uspscompass/compassarchive/compassv5n4/v5n4_mm_carrickbend.htm">http://www.theensign.org/uspscompass/compassarchive/compassv5n4/v5n4_mm_carrickbend.htm</a>
How to Tie a Pretzel Knot (aka Carrick Bend) for Hemp Jewelry	<a href="https://www.youtube.com/watch?v=o6nGKJd51IE">https://www.youtube.com/watch?v=o6nGKJd51IE</a>
How to Tie the Carrick Bend In 60 Seconds!!	<a href="https://www.youtube.com/watch?v=R-wJh8fbugA">https://www.youtube.com/watch?v=R-wJh8fbugA</a>

## Zeppelin Bend

How to Tie the Zeppelin Bend <https://www.youtube.com/watch?v=k09lzQRIKH0>


Securely Joining Two Ropes [https://www.youtube.com/watch?v=l2oj0ybUD\\_g](https://www.youtube.com/watch?v=l2oj0ybUD_g)

The Zeppelin Bend – The Best All-Around Bend? <https://www.youtube.com/watch?v=gMq6Z4M-SZI>







## Clove Hitch

<b>Clove Hitch</b> <i>(do not use to tie up a boat, though)</i> <i>- use a Round Turn and Two Half-Hitches instead</i>		 <p>The Clove Hitch</p>
How to Tie a Clove Hitch (2 ways)	<a href="https://www.youtube.com/watch?v=G9WyrzNjJs">https://www.youtube.com/watch?v=G9WyrzNjJs</a>	
The Misunderstood Clove Hitch – Boy Scouts	<a href="http://scoutpioneering.com/2013/04/01/the-misunderstood-clove-hitch/">http://scoutpioneering.com/2013/04/01/the-misunderstood-clove-hitch/</a>	
How to Tie the Clove Hitch	<a href="http://www.howcast.com/videos/439-how-to-tie-a-clove-hitch-knot/">http://www.howcast.com/videos/439-how-to-tie-a-clove-hitch-knot/</a>	
How to Tie a Clove Hitch	<a href="https://www.youtube.com/watch?v=NrKIT0BitZA">https://www.youtube.com/watch?v=NrKIT0BitZA</a>	
Clove Hitch – two loop method	<a href="https://www.youtube.com/shorts/rqsbs97yuXg">https://www.youtube.com/shorts/rqsbs97yuXg</a>	
Clove Hitch vs. Constrictor Knot	<a href="https://www.youtube.com/watch?v=YbyVfQdGIjA">https://www.youtube.com/watch?v=YbyVfQdGIjA</a>	

## Taut Line Hitch – Three Variations

<b>Taut Line Hitch – Three Variations</b>	
<b>Rolling Hitch</b> <b>Diagonal Bind</b> – Taut-line hitch – ABOK #1729 – rolling hitch	 <p>Both Magnus and Rolling hitch work. I prefer the midshipman's hitch instead.</p>
What is the "Correct" Taut-Line Hitch?	<a href="https://www.youtube.com/watch?v=Ks2FskttO_4">https://www.youtube.com/watch?v=Ks2FskttO_4</a>
How to tie the Rolling Hitch	<a href="https://www.youtube.com/watch?v=bsLXP-CUs4U">https://www.youtube.com/watch?v=bsLXP-CUs4U</a>
How to tie a Taut-line hitch – Scouts	<a href="https://www.youtube.com/watch?v=H4rbBHp1QXo">https://www.youtube.com/watch?v=H4rbBHp1QXo</a>
Rolling Hitch – Sailing Virgins fun	<a href="https://youtu.be/o8Vx6m8n4F4?t=618">https://youtu.be/o8Vx6m8n4F4?t=618</a>
What is the "Correct" Taut-Line Hitch	<a href="https://www.youtube.com/watch?v=Ks2FskttO_4">https://www.youtube.com/watch?v=Ks2FskttO_4</a>
<b>Midshipman's Hitch -- superior!</b> Diagonal Bind with a twist! ABOK #1855  <i>Less likely to slip than the Rolling Hitch.</i>	
Midshipman's Hitch	<a href="https://www.animatedknots.com/midshipmans-hitch-knot">https://www.animatedknots.com/midshipmans-hitch-knot</a>
Midshipman's Hitch	<a href="https://www.youtube.com/watch?v=5SiMoqbxOo">https://www.youtube.com/watch?v=5SiMoqbxOo</a>
Midshipman's Hitch	<a href="https://www.youtube.com/watch?v=uVuhVTsBq84">https://www.youtube.com/watch?v=uVuhVTsBq84</a>



Taut Line Hitch – Three Variations	
Midshipman’s Hitch	<a href="https://www.youtube.com/watch?v=QZGx1EKvvg0">https://www.youtube.com/watch?v=QZGx1EKvvg0</a>
Rolling Hitch vs Midshipman’s	<a href="https://www.youtube.com/watch?v=bMZtTUTg_mE">https://www.youtube.com/watch?v=bMZtTUTg_mE</a>
Taut Line Hitch (climbing)	<a href="https://www.youtube.com/watch?v=ZqYRPfBxHW8">https://www.youtube.com/watch?v=ZqYRPfBxHW8</a>
How to Tie a Taut Line Hitch	<a href="https://www.youtube.com/watch?v=naHlkc-AQ34">https://www.youtube.com/watch?v=naHlkc-AQ34</a>
Midshipman’s Hitch on a Spar	<a href="https://www.youtube.com/watch?v=F_an39xhzhs">https://www.youtube.com/watch?v=F_an39xhzhs</a>
<b>Magnus Hitch – Inferior!</b> <b>Perpendicular Bind</b> – Magnus Hitch ABOK #1736	
How to Tie a Taut Line Knot	<a href="https://www.youtube.com/watch?v=Rv2GhpeXav8">https://www.youtube.com/watch?v=Rv2GhpeXav8</a>
How to Tie a Taut Link Hitch Knot	<a href="https://www.youtube.com/watch?v=1jkN3K5G8eE">https://www.youtube.com/watch?v=1jkN3K5G8eE</a>
Taut Line Hitch	<a href="https://www.youtube.com/watch?v=eG-xZFUVR-M">https://www.youtube.com/watch?v=eG-xZFUVR-M</a>
How to Tie a Ridgeline Tarp Knot	<a href="https://www.youtube.com/watch?v=B3ftb_X_zzQ">https://www.youtube.com/watch?v=B3ftb_X_zzQ</a>
<b>Using a Taut Line Hitch to Free a Jammed Winch</b>	<b>These videos talk of using a rolling hitch. They work equally well with a Midshipman’s Hitch.</b>
Using a Rolling Hitch to Free a Jammed Winch	<a href="https://www.youtube.com/watch?v=qptVtLVlqY">https://www.youtube.com/watch?v=qptVtLVlqY</a>
Sailing Basics - How to Remove a Jammed Genoa Sheet	<a href="https://www.youtube.com/watch?v=W7BjZgQx3pU">https://www.youtube.com/watch?v=W7BjZgQx3pU</a>

### Comparison of all three (although terms are wrong).


<https://www.youtube.com/watch?v=twHBqJafs9s>

The video is very good at showing the knots. The knot he identifies as a taut-line hitch is the Rolling Hitch. The one he says is erroneous is the Magnus Hitch.

### Cleat Hitch (Clove Hitch on a Cleat)

Cleat Hitch (Clove Hitch on a Cleat)	
	 The Cleat Hitch
How to Tie a Cleat Hitch	<a href="https://www.youtube.com/watch?v=VMwXjckgiOs">https://www.youtube.com/watch?v=VMwXjckgiOs</a>
(ASA) Cleat Hitch	<a href="https://www.youtube.com/watch?v=QmiYjoUX4lw">https://www.youtube.com/watch?v=QmiYjoUX4lw</a>



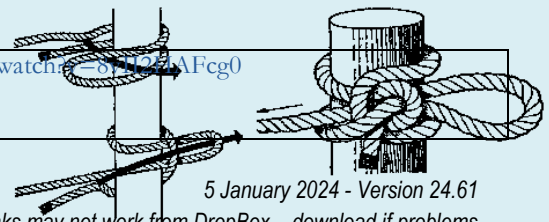
<b>Cleat Hitch (Clove Hitch on a Cleat)</b>		
Essential Sailing Knots – Cleat Hitch – <i>shown with round turn</i>	<a href="https://www.youtube.com/watch?v=nq_ByJ3jUdo">https://www.youtube.com/watch?v=nq_ByJ3jUdo</a>	
How to Cleat a Line: Three Ways	<a href="https://www.youtube.com/watch?v=BBqsF72xNSU&amp;t=1s">https://www.youtube.com/watch?v=BBqsF72xNSU&amp;t=1s</a>	
How to tie a Cleat Hitch, a full break-down with troubleshooting	<a href="https://www.youtube.com/watch?v=k7XGTtcQImQ">https://www.youtube.com/watch?v=k7XGTtcQImQ</a> A few incorrect terms but good 10 min. video.	
A Perfect Cleat Hitch – Maryland School of Sailing	<a href="https://www.youtube.com/watch?v=KaF9lFn0Inw">https://www.youtube.com/watch?v=KaF9lFn0Inw</a> Note, this video uses the term “round turn incorrectly. Watch what he does, not what he says he is doing and it is great.	
How to Properly Tie a Dockline to a Cleat - Beneteau	<a href="https://www.youtube.com/watch?v=3bsWpRE0inA">https://www.youtube.com/watch?v=3bsWpRE0inA</a> Nice idea on what to do with extra line!	

## Monkey’s Fist – see also Heaving Line Knot

How to Tie a Monkey’s Fist Knot	<a href="http://www.youtube.com/watch?v=MXdHcH3FRcM">http://www.youtube.com/watch?v=MXdHcH3FRcM</a>
How to Tie a Monkey’s Fist Step by step - Professional Yachtmaster Training USA	<a href="https://www.youtube.com/watch?v=9vqcDAv79ho">https://www.youtube.com/watch?v=9vqcDAv79ho</a>
Make a 1” Monkey’s Fist with Survival Paracord	<a href="https://www.youtube.com/watch?v=6cGt_QQ2Qgo">https://www.youtube.com/watch?v=6cGt_QQ2Qgo</a>
How to Tie a Monkey’s Fist (paracord)	<a href="https://www.youtube.com/watch?v=31zkBObg-3g">https://www.youtube.com/watch?v=31zkBObg-3g</a>
Monkey’s Fist   How to Tie (NetKnots)	<a href="https://www.netknots.com/rope_knots/monkeys-fist">https://www.netknots.com/rope_knots/monkeys-fist</a>
How to Tie a Monkey’s Fist Knot	<a href="http://www.hgtv.com/design/make-and-celebrate/handmade/how-to-tie-a-monkey-fist-knot">http://www.hgtv.com/design/make-and-celebrate/handmade/how-to-tie-a-monkey-fist-knot</a>
Monkey’s Fist – How to Tie and Practical Applications	<a href="https://www.youtube.com/watch?v=Re6TEuWQf7I">https://www.youtube.com/watch?v=Re6TEuWQf7I</a>
How to Tie with Jig – 8-pass	<a href="https://www.youtube.com/watch?v=lmDO2xGvmIg">https://www.youtube.com/watch?v=lmDO2xGvmIg</a>
Make a Monkey’s Fist – No Jig	<a href="https://www.youtube.com/watch?v=1_YgUGA9Vhc">https://www.youtube.com/watch?v=1_YgUGA9Vhc</a>
This Knot is Illegal! (Monkey’s Fist) ( <i>look for slungshot in statutes</i> )	<a href="https://www.youtube.com/watch?v=FEEOK1tg4Yk">https://www.youtube.com/watch?v=FEEOK1tg4Yk</a> <a href="https://www.youtube.com/watch?v=FZr61OKj0Nw">https://www.youtube.com/watch?v=FZr61OKj0Nw</a>

## Highwayman’s Hitch – Mooring Hitch

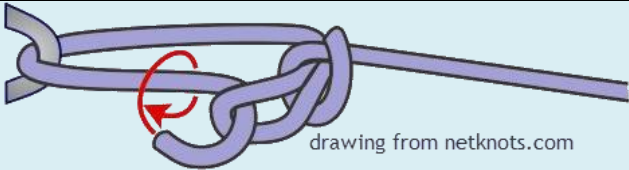
Highwayman Hitch quick and easy guide	<a href="https://www.youtube.com/watch?v=87v22AFcg0">https://www.youtube.com/watch?v=87v22AFcg0</a>
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Highwayman's Animated Knots	<a href="https://www.youtube.com/watch?v=kFFmED03obE">https://www.youtube.com/watch?v=kFFmED03obE</a>
Make a Quick Get Away with...	<a href="https://www.youtube.com/watch?v=C27SqE86lUs">https://www.youtube.com/watch?v=C27SqE86lUs</a>
Highwayman's Hitch or Highwayman's Cutaway	<a href="https://www.youtube.com/watch?v=xN2wdp0Wvj8">https://www.youtube.com/watch?v=xN2wdp0Wvj8</a>
Dick Turpin's Knot	<a href="https://www.youtube.com/watch?v=xN2wdp0Wvj8&amp;t=236s">https://www.youtube.com/watch?v=xN2wdp0Wvj8&amp;t=236s</a>
Quick Release Knot	<a href="https://www.youtube.com/watch?v=gSv04Td4-hU">https://www.youtube.com/watch?v=gSv04Td4-hU</a>
Net Knots 30-sec video	<a href="https://www.youtube.com/watch?v=zlVllpfHO4Q">https://www.youtube.com/watch?v=zlVllpfHO4Q</a>
3 Essential sailing knots digression	<a href="https://youtu.be/Wjyuk_ibU3A?t=993">https://youtu.be/Wjyuk_ibU3A?t=993</a>
How To Tie A Highwayman's Hitch Knot, Bank Robber Knot or Getaway Knot   Quick Release Knot You Need	<a href="https://www.youtube.com/watch?v=zutM-5yxn50">https://www.youtube.com/watch?v=zutM-5yxn50</a> <i>( I would turn the sound off for this video.)</i>
Chas Kenyon page	<a href="https://www.dropbox.com/s/tzw6gh5scd29qar/Highwayman%27s%20Hit ch.pdf?dl=0">https://www.dropbox.com/s/tzw6gh5scd29qar/Highwayman%27s%20Hit ch.pdf?dl=0</a>
Mooring Hitch	<a href="https://www.survivalworld.com/knots/mooring-hitch/">https://www.survivalworld.com/knots/mooring-hitch/</a>
Mooring Hitch – Net Knots	<a href="https://www.netknots.com/rope_knots/mooring-hitch">https://www.netknots.com/rope_knots/mooring-hitch</a>
Mooring Hitch – Wikipedia	<a href="https://en.wikipedia.org/wiki/Mooring_hitch">https://en.wikipedia.org/wiki/Mooring_hitch</a>
<i>(compare with)</i> High Post Hitch	<a href="https://www.youtube.com/watch?v=Zxdt-b-opIs">https://www.youtube.com/watch?v=Zxdt-b-opIs</a>
<i>(compare with)</i> Painter Hitch	<a href="https://www.youtube.com/watch?v=TUwSJ_56SoI&amp;t=101s">https://www.youtube.com/watch?v=TUwSJ_56SoI&amp;t=101s</a>

## Trucker's Hitch

<b>Trucker's Hitch</b>	
Wikipedia Article	<a href="https://en.wikipedia.org/wiki/Trucker%27s_hitch">https://en.wikipedia.org/wiki/Trucker%27s_hitch</a>
Trucker's Hitch – ridgeline	<a href="https://www.youtube.com/watch?v=AHw7uymjq3Q">https://www.youtube.com/watch?v=AHw7uymjq3Q</a>
Netknots animation using slip knot	<a href="http://www.netknots.com/rope_knots/truckers-hitch">http://www.netknots.com/rope_knots/truckers-hitch</a>
TH – slip knot	<a href="https://www.youtube.com/watch?v=amsdd9VQOVw">https://www.youtube.com/watch?v=amsdd9VQOVw</a>
TH using Alpine Butterfly	<a href="https://www.youtube.com/watch?v=nm3nnM4CL1w">https://www.youtube.com/watch?v=nm3nnM4CL1w</a>
TH using Farmer's Loop w/ carabiners	<a href="https://www.youtube.com/watch?v=lpGW6hQIvPo">https://www.youtube.com/watch?v=lpGW6hQIvPo</a>
TH three different ways	<a href="https://www.youtube.com/watch?v=tvqFyqFZK54">https://www.youtube.com/watch?v=tvqFyqFZK54</a>



<b>Trucker's Hitch</b>	
 <p style="text-align: right; font-size: small;">drawing from netknots.com</p>	
Trucker's Hitch – Deep Dive Includes Alpine Butterfly Loop	<a href="https://www.youtube.com/watch?v=oUeEb9XH4u4">https://www.youtube.com/watch?v=oUeEb9XH4u4</a>
Six Ways to Level Up Your Trucker's Hitch	<a href="https://www.youtube.com/watch?v=FDIUA8wptvU">https://www.youtube.com/watch?v=FDIUA8wptvU</a>

## Other Links

Other Links	
Fusion Knots: New and Unusual Ornamental Knots	<a href="http://www.fusionknots.com/">http://www.fusionknots.com/</a>
(Grog's) Animated Knots	<a href="http://www.animatedknots.com">www.animatedknots.com</a>
Knots, Bends & Hitches (Army, 1973)	<a href="https://www.youtube.com/watch?v=bkYbCBIBAbQ">https://www.youtube.com/watch?v=bkYbCBIBAbQ</a>
A Study of Knot Strength	<a href="http://www.bethandevans.com/pdf/8_strength.pdf">http://www.bethandevans.com/pdf/8_strength.pdf</a>
An Assessment of the Strength of Rope Splices and Knots in Sailing Ropes (2007)	<a href="http://personal.strath.ac.uk/andrew.mclaren/william_diamond_2007.pdf">http://personal.strath.ac.uk/andrew.mclaren/william_diamond_2007.pdf</a>
How to Make a Noble Heart Bar Bracelet	<a href="https://www.youtube.com/user/TyingItAllTogether">https://www.youtube.com/user/TyingItAllTogether</a>
Lines by Sailboat Type – Mauri	<a href="http://www.mauriprosailing.com/us/lines-by-sailboat.html">http://www.mauriprosailing.com/us/lines-by-sailboat.html</a>
Sailboat Lines by Application – Mauri	<a href="http://www.mauriprosailing.com/us/lines-by-application.html">http://www.mauriprosailing.com/us/lines-by-application.html</a>
Instructables - Knots	<a href="http://www.instructables.com/tag/type-id/category-outside/channel-knots/">http://www.instructables.com/tag/type-id/category-outside/channel-knots/</a>
World's Largest Monkey's Fist	<a href="http://youtu.be/DBHt14YmjDM">http://youtu.be/DBHt14YmjDM</a>
Life is Like Sailing – How to Coil a Line	<a href="https://www.youtube.com/watch?v=2333Ff8GJDwS">https://www.youtube.com/watch?v=2333Ff8GJDwS</a>
Six Knots You Need to Know	<a href="https://www.youtube.com/watch?v=ZZPYPuonvQ">https://www.youtube.com/watch?v=ZZPYPuonvQ</a>
Useful Knots and Hitches	<a href="http://www.boatsafe.com/marlinespike/knots.htm">http://www.boatsafe.com/marlinespike/knots.htm</a>
How Its Made - Rope	<a href="https://www.youtube.com/watch?t=11&amp;v=UyDHBNIx6hA">https://www.youtube.com/watch?t=11&amp;v=UyDHBNIx6hA</a>
Shoelace Knots	<a href="http://www.fieggen.com/shoelace/knots.htm">http://www.fieggen.com/shoelace/knots.htm</a>
<b>Hitches</b> including Clove Hitch, Constrictor Knot, Round Turn and Two Half-Hitches, Fisherman's Bend (Anchor Bend), Cow Hitch, Sheepshank, Marlinespike Hitch, Rolling Hitch on a Pole/Rope,	<a href="https://www.youtube.com/watch?v=vR4trLZ3jGI">https://www.youtube.com/watch?v=vR4trLZ3jGI</a>



<b>Other Links</b>	
Shorten Rope Without Cutting - Sheepshank	<a href="https://www.youtube.com/watch?v=mJb01t5lbs8">https://www.youtube.com/watch?v=mJb01t5lbs8</a>
Alpine Butterfly Loop	<a href="https://www.youtube.com/watch?v=Nw9fNxSGqAo">https://www.youtube.com/watch?v=Nw9fNxSGqAo</a>
What happens if you tie Alpine Butterfly Wrong – with break tests	<a href="https://www.youtube.com/watch?v=jqlkVuECmPY">https://www.youtube.com/watch?v=jqlkVuECmPY</a>
Alpine Butterfly Loop – slow-motion IGKT	<a href="https://www.youtube.com/watch?v=PZN61xt9Y70">https://www.youtube.com/watch?v=PZN61xt9Y70</a>
Alpine Butterfly Knot – Two ways	<a href="https://www.youtube.com/watch?v=q8wQvZ3wYpM">https://www.youtube.com/watch?v=q8wQvZ3wYpM</a>
This Knot is a GAMECHANGER! - The Alpine Butterfly Knot – the Queen	<a href="https://www.youtube.com/watch?v=Qc89VZ9JkN0">https://www.youtube.com/watch?v=Qc89VZ9JkN0</a>
How to tie a Constrictor Knot [sic] – BSA	<a href="https://www.youtube.com/watch?v=NUSO8zuJzEY">https://www.youtube.com/watch?v=NUSO8zuJzEY</a>
How to tie a Constrictor Hitch	<a href="https://youtu.be/4LgbkXIF0oU?t=94">https://youtu.be/4LgbkXIF0oU?t=94</a>
Clove Hitch vs. Constrictor Hitch	<a href="https://www.youtube.com/watch?v=YbyVfQdGIjA">https://www.youtube.com/watch?v=YbyVfQdGIjA</a>
Constrictor Knot – IGKT – two ways	<a href="https://www.youtube.com/watch?v=EYCp1Znykko">https://www.youtube.com/watch?v=EYCp1Znykko</a>
<b>Binding Knots</b> including Reef Knot, Thief Knot, Packer's Knot	<a href="https://www.youtube.com/watch?v=4cxVOBEg2Pc">https://www.youtube.com/watch?v=4cxVOBEg2Pc</a>
Thief Knot - IGKT	<a href="https://www.youtube.com/watch?v=dNhgChV33RE">https://www.youtube.com/watch?v=dNhgChV33RE</a>
<b>5 Essential Sailing Knots</b> – How to Tie Them and When to Use Them – Constrictor Knot, Rolling Hitch to free a winch, Zeppelin Bend, Round Turn and Two Half-Hitches, Cleat Hitch	<a href="https://www.youtube.com/watch?v=AI0GO86KmsQ">https://www.youtube.com/watch?v=AI0GO86KmsQ</a>
<b>9 Most Useful Sailing Knots</b> Figure-8, Rolling Hitch, Bowline, Sheetbend and Double Sheetbend, Clove Hitch, Reef Knot, Round Turn & Two Half-Hitches, Anchor Bend	<a href="https://www.youtube.com/watch?v=NRrVyz9cVtU">https://www.youtube.com/watch?v=NRrVyz9cVtU</a>
<b>Nine Knots for Sailors</b> Bowline, cleat hitch, clove hitch, buntline hitch, figure-8, strait bend, Alpine butterfly, midshipman's hitch (mis-identified as rolling hitch), admiralty stopper.	<a href="https://www.youtube.com/watch?v=uP-PLhz_uIw">https://www.youtube.com/watch?v=uP-PLhz_uIw</a>



Other Links	
<b>Essential Sailing Knots</b> – Learn these 3 and tie lots! (Not really just 3) Round Turn & two half-hitches, clove hitch & bowline	<a href="https://www.youtube.com/watch?v=Wjyuk_ibU3A">https://www.youtube.com/watch?v=Wjyuk_ibU3A</a> Also includes constrictor knot, sheetbend, highwayman’s hitch, trucker’s hitch, buntline hitch
<b>Great Sailing Knots</b> – Sailing Virgins	<a href="https://youtu.be/o8Vx6m8n4F4">https://youtu.be/o8Vx6m8n4F4</a>
<b>Alpine Butterfly</b> – twist method	<a href="https://www.youtube.com/watch?v=LhCvOCvqIHI">https://www.youtube.com/watch?v=LhCvOCvqIHI</a>
<b>Alpine Butterfly</b> – three methods	<a href="https://www.youtube.com/watch?v=dY33TPXTZN4">https://www.youtube.com/watch?v=dY33TPXTZN4</a>
<b>Stopper Knots</b> including Overhand Knot, Slipped Overhand Knot, Figure 8, Stevedore’s Knot,	<a href="https://www.youtube.com/watch?v=-o88qEqiLjk">https://www.youtube.com/watch?v=-o88qEqiLjk</a>
Double Fisherman’s Bend	<a href="https://www.youtube.com/watch?v=zKRhVKgjWjo">https://www.youtube.com/watch?v=zKRhVKgjWjo</a>
Double Fisherman’s Knot [Bend]	<a href="https://www.youtube.com/watch?v=4DHPyG6iABk">https://www.youtube.com/watch?v=4DHPyG6iABk</a>
Rope and Knot Terms	<a href="https://www.youtube.com/watch?v=D4FLBog6OHw">https://www.youtube.com/watch?v=D4FLBog6OHw</a>
<b>Loops</b> including Bowline	<a href="https://www.youtube.com/watch?v=5gEQP1rENf4">https://www.youtube.com/watch?v=5gEQP1rENf4</a>
Busted! – Knot Strength – New England Ropes	<a href="http://www.neropes.com/Resources/sail_reprint.pdf">http://www.neropes.com/Resources/sail_reprint.pdf</a>
Chain Sennit IGKT Extension Cords	<a href="https://www.youtube.com/watch?v=I6MF4JNW9w0">https://www.youtube.com/watch?v=I6MF4JNW9w0</a>
Auto-Lock Prussik Knot	<a href="https://www.youtube.com/watch?v=bVgn8GanC_Y">https://www.youtube.com/watch?v=bVgn8GanC_Y</a>
Knot and Cord Strength Especially on newer line types	<a href="http://efclimbers.net/wp-content/uploads/2013/02/Knot-and-cord-strength.pdf">http://efclimbers.net/wp-content/uploads/2013/02/Knot-and-cord-strength.pdf</a>
Basic Ropes and Knots	<a href="http://www.seattle.gov/Documents/Departments/fireJobs/BS_M_2009_Chapter6-BasicRopesKnots.pdf">http://www.seattle.gov/Documents/Departments/fireJobs/BS_M_2009_Chapter6-BasicRopesKnots.pdf</a>
Notes on Ropes – Boy Scouts	<a href="http://www.gec-bsa.org/program/training/adulttraining/highadventure/articles/ropes/?page_style=print">http://www.gec-bsa.org/program/training/adulttraining/highadventure/articles/ropes/?page_style=print</a>
The Handcuff Knot	<a href="http://www.howcast.com/videos/82-how-to-tie-the-handcuff-knot/">http://www.howcast.com/videos/82-how-to-tie-the-handcuff-knot/</a>
The High Post Hitch	<a href="https://www.youtube.com/watch?v=Zxdt-b-opIs">https://www.youtube.com/watch?v=Zxdt-b-opIs</a>
<i>A Few Good Knots</i> by Forbes Pettigrew (Used as a handout in Marlinespike A)	<a href="http://www.pioneeringprojects.org/resources/ebooks/A-Few-Good-Knots.pdf">http://www.pioneeringprojects.org/resources/ebooks/A-Few-Good-Knots.pdf</a> <a href="https://ia800802.us.archive.org/10/items/AFewGoodKnots_201404/A-Few-Good-Knots.pdf">https://ia800802.us.archive.org/10/items/AFewGoodKnots_201404/A-Few-Good-Knots.pdf</a>
Learn to sail 6 basic knots – Carpe Diem	<a href="https://www.youtube.com/watch?v=Vw23pN8vPFc">https://www.youtube.com/watch?v=Vw23pN8vPFc</a>
Advanced Knots and Whipping a Line– Carpe Diem	<a href="https://www.youtube.com/watch?v=4cbaYXk3vag">https://www.youtube.com/watch?v=4cbaYXk3vag</a>



<b>Other Links</b>	
How to Whip the End of Boat Lines (Sailmaker's Whipping)	<a href="https://www.youtube.com/watch?v=3ZCXhdzvQrU">https://www.youtube.com/watch?v=3ZCXhdzvQrU</a>
How to Whip a Line (Emily & Clark)	

## Hooper Sailing Club Videos

Slip Knot (Jedi) Method of Tying Bowline Knot	<a href="https://www.youtube.com/watch?v=CmwKBA3XMR0">https://www.youtube.com/watch?v=CmwKBA3XMR0</a>
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## Rope and Cordage Management (Coiling/Flaking Lines)

<b>Rope and Cordage Management (Coiling/Flaking Lines)</b>	
How to Coil and Stow Braided Lines without Tangles	<a href="https://youtu.be/vX4Zr0vdGHE">https://youtu.be/vX4Zr0vdGHE</a>
Life is Like Sailing – How to Coil a Line (without kinks)	<a href="https://www.youtube.com/watch?v=2333Ff8GJDw&amp;t=8s">https://www.youtube.com/watch?v=2333Ff8GJDw&amp;t=8s</a>
How to Sail a Sailboat : How to Coil Rope for Sailing	<a href="https://www.youtube.com/watch?v=fa06oPNJBys">https://www.youtube.com/watch?v=fa06oPNJBys</a>
Line Organizing (Ocean Navigator)	<a href="https://www.youtube.com/watch?v=XuH4MYu0JHA&amp;t=221s">https://www.youtube.com/watch?v=XuH4MYu0JHA&amp;t=221s</a>
Best way to Coil Arborist Rope, Figure 8	<a href="https://www.youtube.com/watch?v=E2DT-jJaW3k">https://www.youtube.com/watch?v=E2DT-jJaW3k</a>
Learn How to Coil Braided Rope Correctly	<a href="https://www.youtube.com/watch?v=pF3jyUx6JyM">https://www.youtube.com/watch?v=pF3jyUx6JyM</a>

## RYA – Competent (keelboat) Crew

13. Knots (Cleat Hitch is not what we use) good on rolling hitch to free jammed winch	<a href="https://www.youtube.com/watch?v=4TLMqo_8DZA">https://www.youtube.com/watch?v=4TLMqo_8DZA</a>
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## ASA Video Tips about Lines and Line Handling

<b>ASA Video Tips about Lines and Line Handling</b>	
Tidy Lines	<a href="https://www.youtube.com/watch?v=4XKs7cTkgTk">https://www.youtube.com/watch?v=4XKs7cTkgTk</a>
Winches	<a href="https://www.youtube.com/watch?v=EqzhmbC8BX0">https://www.youtube.com/watch?v=EqzhmbC8BX0</a>





<b>ASA Video Tips about Lines and Line Handling</b>	
Spring Lines	<a href="https://www.youtube.com/watch?v=Y5XXCmMSkd8">https://www.youtube.com/watch?v=Y5XXCmMSkd8</a>
Cleat Hitch	<a href="https://www.youtube.com/watch?v=QmiYjoUX4lw">https://www.youtube.com/watch?v=QmiYjoUX4lw</a>
Rolling Hitch	<a href="https://www.youtube.com/watch?v=DcK15qwhSiQ">https://www.youtube.com/watch?v=DcK15qwhSiQ</a>
Bowline	<a href="https://www.youtube.com/watch?v=V9EsQ4G-VaY">https://www.youtube.com/watch?v=V9EsQ4G-VaY</a>
Coiling a Line	<a href="https://www.youtube.com/watch?v=K1IeinSxL8E">https://www.youtube.com/watch?v=K1IeinSxL8E</a>

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## Captain John's Skipper Tips

<b>Captain John's Skipper Tips</b>	(videos, usually very short)
How to Dock Your Boat with a Forward Bow Spring Line	<a href="http://www.youtube.com/watch?v=zhA_m3x4x8c">http://www.youtube.com/watch?v=zhA_m3x4x8c</a>
Using a Lark's Head Knot to Attach Jib	<a href="https://www.youtube.com/watch?v=6fk4nT3Clbk">https://www.youtube.com/watch?v=6fk4nT3Clbk</a>
How to Undock Using the Aft Bow Springline	<a href="https://www.youtube.com/watch?v=7_Y5G1ke6n8">https://www.youtube.com/watch?v=7_Y5G1ke6n8</a>
Elevator Technique for Bringing MOB aboard	<a href="https://www.youtube.com/watch?v=Q9tY6YU3Kdg">https://www.youtube.com/watch?v=Q9tY6YU3Kdg</a>
How to Remove a Jammed Sheet from a Sailboat Winch	<a href="http://www.skippertips.com/public/Learn_to_Sail_Video__How_to_Removed_a_Jammed_Sheet_from_a_Sailboat_Winch.cfm">http://www.skippertips.com/public/Learn_to_Sail_Video__How_to_Removed_a_Jammed_Sheet_from_a_Sailboat_Winch.cfm</a>
How to tie a Rolling Hitch	<a href="https://www.youtube.com/watch?v=bslXP-CUs4U">https://www.youtube.com/watch?v=bslXP-CUs4U</a>
Three Steps to Remove Jams from a Sheet Winch	<a href="https://www.skippertips.com/members/2755.cfm">https://www.skippertips.com/members/2755.cfm</a>
Marine Knots Secrets - How to Add Strength, Power, and Security to any Sailing Knot!	<a href="https://www.skippertips.com/members/390.cfm">https://www.skippertips.com/members/390.cfm</a>
Do you know these Docking Line Names?	<a href="https://www.youtube.com/watch?v=wAu98cGB7po">https://www.youtube.com/watch?v=wAu98cGB7po</a>
Tie an Anchor Hitch	<a href="https://www.youtube.com/watch?v=hRNtjeA9P4w">https://www.youtube.com/watch?v=hRNtjeA9P4w</a>
Tie a clove hitch when you have access to an end	<a href="https://www.youtube.com/watch?v=NrKIT0BitZA">https://www.youtube.com/watch?v=NrKIT0BitZA</a>
Tie a Double-Constrictor Knot	<a href="https://www.youtube.com/watch?v=r0me8bnTU1g">https://www.youtube.com/watch?v=r0me8bnTU1g</a>
Ten Line Tips	<a href="https://www.youtube.com/watch?v=7rSgi8JS9RI">https://www.youtube.com/watch?v=7rSgi8JS9RI</a>
Five Ways to Use a Marlinespike Rigging Tool	<a href="https://www.youtube.com/watch?v=4brn4uZqnAo">https://www.youtube.com/watch?v=4brn4uZqnAo</a>



<b>Captain John's Skipper Tips</b>	(videos, usually very short)
Keep Clear of this Sailing Line 'Danger Zone'	<a href="https://www.youtube.com/watch?v=OTU6OOoutA">https://www.youtube.com/watch?v=OTU6OOoutA</a>

## Standard Rope Splices - Three-Strand and Double Braid

<b>Standard Rope Splices – Three-Strand and Double Braid</b>	
Easy to follow 3-Strand Eye-Splice	<a href="https://www.youtube.com/watch?v=QeYBkMCQ8WY">https://www.youtube.com/watch?v=QeYBkMCQ8WY</a>
Eye splicing a rope – IGKT	<a href="https://www.youtube.com/watch?v=EYCp1Znykko">https://www.youtube.com/watch?v=EYCp1Znykko</a>
Three-Strand Rope Splicing – a series of 15 short videos from DVD	<a href="https://www.youtube.com/playlist?list=PLHDJedEHvMoA9ILRJ_Di_UKpFDH8H4EhJ">https://www.youtube.com/playlist?list=PLHDJedEHvMoA9ILRJ_Di_UKpFDH8H4EhJ</a>
Learn the Three-Strand Eye Splice	<a href="https://www.youtube.com/watch?v=4rn52EwUgZM">https://www.youtube.com/watch?v=4rn52EwUgZM</a>
Loop Splice in Three Strand Rope	<a href="https://www.youtube.com/watch?v=qMXfy7NkCio">https://www.youtube.com/watch?v=qMXfy7NkCio</a>
Making an Eye-Splice in Nylon Rope	<a href="https://www.youtube.com/watch?v=NvYLS1Am1U">https://www.youtube.com/watch?v=NvYLS1Am1U</a>
3-Strand Eye Splice for Beginners	<a href="https://www.youtube.com/watch?v=7Jpl-mCD-vw">https://www.youtube.com/watch?v=7Jpl-mCD-vw</a>
Easy to follow 3-strand Back-Splice	<a href="https://www.youtube.com/watch?v=v5scjt6FzAM&amp;t=250s">https://www.youtube.com/watch?v=v5scjt6FzAM&amp;t=250s</a>
Three-Strand Back Splice	<a href="https://www.youtube.com/watch?v=uivsF61ytLQ">https://www.youtube.com/watch?v=uivsF61ytLQ</a>
Ring Crown Splice	<a href="https://www.youtube.com/watch?v=4Huz62zQvcs">https://www.youtube.com/watch?v=4Huz62zQvcs</a>
3-Strand Chain Splice	<a href="https://www.youtube.com/watch?v=Z2zgapDroXI">https://www.youtube.com/watch?v=Z2zgapDroXI</a>
Attaching rope onto objects- back splice	<a href="https://www.youtube.com/watch?v=QsUs1h_KYmsc">https://www.youtube.com/watch?v=QsUs1h_KYmsc</a>
The End Splice	<a href="https://www.youtube.com/watch?v=waEP2laUodg">https://www.youtube.com/watch?v=waEP2laUodg</a>
Short Splice	<a href="http://www.wdcra.org.uk/study/splice.htm">http://www.wdcra.org.uk/study/splice.htm</a>
Long Splice	<a href="http://www.wdcra.org.uk/study/long.htm">http://www.wdcra.org.uk/study/long.htm</a>
Marline Eye Splice – Lazy Splice This one is different!	<a href="https://www.youtube.com/watch?v=L_bxz8Jn8E8">https://www.youtube.com/watch?v=L_bxz8Jn8E8</a>
Double-Braid Eye Splice	<a href="https://www.youtube.com/watch?v=Ym1-ri0SdaA">https://www.youtube.com/watch?v=Ym1-ri0SdaA</a>
Double-Braid Splicing	<a href="https://www.youtube.com/watch?v=UghIS9xdiDw">https://www.youtube.com/watch?v=UghIS9xdiDw</a>
Double Braid Eye Splice   Sailing Wisdom	<a href="https://www.youtube.com/watch?v=kNuhAVVzNd0">https://www.youtube.com/watch?v=kNuhAVVzNd0</a>



<b>Standard Rope Splices – Three-Strand and Double Braid</b>	
Splicing Sta-Set (tubular fid)	<a href="https://www.youtube.com/watch?v=RHhRx2RYwvY">https://www.youtube.com/watch?v=RHhRx2RYwvY</a>
Double-Braid Eye Splice in 5 min	<a href="https://www.youtube.com/watch?v=LgLzMGokoWc">https://www.youtube.com/watch?v=LgLzMGokoWc</a>
End-for-End Double-Braid Splice	<a href="https://www.youtube.com/watch?v=vGtJh4IEE90">https://www.youtube.com/watch?v=vGtJh4IEE90</a>
Samson Ropes Splicing Instructions double braid class 1 (pdf)	<a href="https://www.samsonrope.com/docs/default-source/splice-instructions/dblbrd_c1_eye_splice_web.pdf?sfvrsn=3976dd6f_2">https://www.samsonrope.com/docs/default-source/splice-instructions/dblbrd_c1_eye_splice_web.pdf?sfvrsn=3976dd6f_2</a>
Samson Ropes Splicing Instructions	<a href="https://www.youtube.com/watch?v=n4tU2G31Bus">https://www.youtube.com/watch?v=n4tU2G31Bus</a>
Samson Ropes Splicing (all)	<a href="https://samsonrope.com/resources/how-to-splice-rope">https://samsonrope.com/resources/how-to-splice-rope</a>
New England Rope – Splicing Guide	<a href="http://www.wesspur.com/images/pdfs/neropes-splice-guide.pdf">http://www.wesspur.com/images/pdfs/neropes-splice-guide.pdf</a>
New England Ropes Splicing Instructions	<a href="https://www.teufelberger.com/en/downloads/splicing-instructions/commercial-marine.html">https://www.teufelberger.com/en/downloads/splicing-instructions/commercial-marine.html</a>
Double-Braid Splicing (NE Ropes)	<a href="https://www.youtube.com/watch?v=UghIS9xdiDw">https://www.youtube.com/watch?v=UghIS9xdiDw</a>
Marlow Ropes Splicing Instructions	<a href="https://www.marlowropes.com/splicing-instructions">https://www.marlowropes.com/splicing-instructions</a>
Yale Cordage Splicing Instructions	<a href="http://www.yalecordage.com/splicing-and-instructions">http://www.yalecordage.com/splicing-and-instructions</a>
Gleistein Splicebook	<a href="http://www.gleistein.com/assets/download_pdfs_images/Kataloge/Spliebookenglweb.pdf">http://www.gleistein.com/assets/download_pdfs_images/Kataloge/Spliebookenglweb.pdf</a>
Brion Toss on Double-Braid Splice	<a href="https://www.youtube.com/watch?v=ZOq2DWN3t-M">https://www.youtube.com/watch?v=ZOq2DWN3t-M</a>
Double Braid Eye Splice with a Splicing Wand (parts 1 & 2) Sailrite	<a href="https://www.youtube.com/watch?v=7B_dW_-e7IM">https://www.youtube.com/watch?v=7B_dW_-e7IM</a> <a href="https://www.youtube.com/watch?v=DTeaYj5xZaU">https://www.youtube.com/watch?v=DTeaYj5xZaU</a>
Load Testing of lines, knots, and splices	<a href="https://web.archive.org/web/20160318230212/http://www.bethandevans.com/load.htm">https://web.archive.org/web/20160318230212/http://www.bethandevans.com/load.htm</a>
Samson Rope: Eye Splice Lock Stitching Procedure	<a href="https://www.youtube.com/watch?v=T55K4D0kmgw">https://www.youtube.com/watch?v=T55K4D0kmgw</a>
Lock Stitch on a Splice	<a href="https://www.youtube.com/watch?v=I_hy9rjLA8A">https://www.youtube.com/watch?v=I_hy9rjLA8A</a>

## Dyneema ® Splices and Soft Shackles – Button Knots and Diamond Knots

<b>Dyneema ® Splices and Soft Shackles – Button Knots and Diamond Knots</b>	
The Amazing Lightweight Rope That Can Lift a Car!	<a href="https://www.youtube.com/watch?v=9shiekaQNT0">https://www.youtube.com/watch?v=9shiekaQNT0</a>



<b>Dyneema ® Splices and Soft Shackles – Button</b>	
<b>Knots and Diamond Knots</b>	
What is Dyneema ® and Why is it Awesome?	<a href="https://dutchwaregear.com/2023/06/02/what-is-Dyneema-®-everything-to-know-about-cuben-fiber/">https://dutchwaregear.com/2023/06/02/what-is-Dyneema-®-everything-to-know-about-cuben-fiber/</a>
How Bad Are Knots in Dyneema ®	<a href="https://www.youtube.com/watch?v=MdA9mdDlJ6Y">https://www.youtube.com/watch?v=MdA9mdDlJ6Y</a>
Knots in Dyneema ® – Allen Edwards L-36	<a href="https://www.youtube.com/watch?v=b9GLp1Esins">https://www.youtube.com/watch?v=b9GLp1Esins</a>
The Knot You Should Never Tie?	<a href="https://www.youtube.com/watch?v=rAVlg3vBvk0">https://www.youtube.com/watch?v=rAVlg3vBvk0</a>
Dyneema ® knot slipping demo	<a href="https://youtu.be/3GDKxgYwzul?t=472">https://youtu.be/3GDKxgYwzul?t=472</a>
Working with High-Tech Ropes	<a href="https://www.practical-sailor.com/sails-rigging-deckgear/working-with-high-tech-ropes">https://www.practical-sailor.com/sails-rigging-deckgear/working-with-high-tech-ropes</a>
Soft Shackles – L-36 Allen Edwards	<a href="http://l-36.com/soft_shackles.php?menu=4">http://l-36.com/soft_shackles.php?menu=4</a>
On Deck: Soft Shackles: Sail Magazine	<a href="http://www.sailmagazine.com/gear/sail-rope-and-rigging/on-deck-soft-shackles/">http://www.sailmagazine.com/gear/sail-rope-and-rigging/on-deck-soft-shackles/</a>
Brummel Lock Single Splice	<a href="https://www.youtube.com/watch?v=d0B6tYTVHVM">https://www.youtube.com/watch?v=d0B6tYTVHVM</a>
Brummel Splice 1 <sup>st</sup> end (NE Ropes)	<a href="https://www.youtube.com/watch?v=QZM-0HVic0w">https://www.youtube.com/watch?v=QZM-0HVic0w</a>
Brummel Splice 2 <sup>nd</sup> end (NE Ropes)	<a href="https://www.youtube.com/watch?v=fIR5jdQ7TEo">https://www.youtube.com/watch?v=fIR5jdQ7TEo</a>
Modified Brummel Splice (Part I)	<a href="https://www.youtube.com/watch?v=IxSi8igfChk">https://www.youtube.com/watch?v=IxSi8igfChk</a>
Modified Brummel Splice (Part II)	<a href="https://www.youtube.com/watch?v=u9pnLY_HHRU">https://www.youtube.com/watch?v=u9pnLY_HHRU</a>
Modified Brummel Splice (Part III)	<a href="https://www.youtube.com/watch?v=eR5qbzQ0q9w">https://www.youtube.com/watch?v=eR5qbzQ0q9w</a>
Brummel splice using only one end (mobius)	<a href="https://www.youtube.com/watch?v=DbCri0mldLw">https://www.youtube.com/watch?v=DbCri0mldLw</a>
How to do a Brummel Splice around a Shackle	<a href="https://www.youtube.com/watch?v=DEppp8MpGN8">https://www.youtube.com/watch?v=DEppp8MpGN8</a>
Dyneema ® Lock Stitch Demonstration	<a href="https://www.youtube.com/watch?v=tKqAfBfNc3A">https://www.youtube.com/watch?v=tKqAfBfNc3A</a>
(Repairing Dyneema ® Lifeline with) End for End Splice	<a href="https://www.youtube.com/watch?v=91B-5pE9mwQ">https://www.youtube.com/watch?v=91B-5pE9mwQ</a>
Soft Shackle Variations L-36	<a href="https://l-36.com/soft_types.php">https://l-36.com/soft_types.php</a>
Softie Soft Shackle	<a href="https://www.youtube.com/watch?v=jH66tGsWv_Y">https://www.youtube.com/watch?v=jH66tGsWv_Y</a>
Dyneema ® Soft Shackle (Marlow)	<a href="https://www.marlowropes.com/splicing-instructions">https://www.marlowropes.com/splicing-instructions</a>
D-SPLICER: how to make a Dyneema ® softshackle	<a href="https://www.youtube.com/watch?v=sP74FE4p8to">https://www.youtube.com/watch?v=sP74FE4p8to</a>
Tips and Tricks for Making Soft Shackles Good on the diamond knot!	<a href="https://www.youtube.com/watch?v=yZh1M8E'TLRk">https://www.youtube.com/watch?v=yZh1M8E'TLRk</a>
Locked Dyneema ® Loop	<a href="https://www.youtube.com/watch?v=zu6pE'Zy96I4">https://www.youtube.com/watch?v=zu6pE'Zy96I4</a>



<b>Dyneema ® Splices and Soft Shackles – Button</b>	
<b>Knots and Diamond Knots</b>	
Does Tapering Matter? (tests video)	<a href="https://www.youtube.com/watch?v=lhIPeJNWtxE">https://www.youtube.com/watch?v=lhIPeJNWtxE</a>
How Important Is It That You Taper Your Splices? (article with test results and videos)	<a href="https://www.hownot2.com/post/are-tapering-splices-that-important-in-dyneema-hmpe">https://www.hownot2.com/post/are-tapering-splices-that-important-in-dyneema-hmpe</a>
We are worried about the wrong things	<a href="https://www.youtube.com/watch?v=r4j7gKn0Ms8">https://www.youtube.com/watch?v=r4j7gKn0Ms8</a>
Splice Hollow Braid 12-Strand Rope - Locking & Mobius Brummel Splice - Thimble Eye	<a href="https://www.youtube.com/watch?v=WOBs_aCxZ0c">https://www.youtube.com/watch?v=WOBs_aCxZ0c</a>
Dyneema ® Loop Soft Shackle	<a href="https://www.youtube.com/watch?v=o79ncWQuhPc">https://www.youtube.com/watch?v=o79ncWQuhPc</a>
On Deck: Soft Shackles	<a href="https://www.sailmagazine.com/gear/on-deck-soft-shackles">https://www.sailmagazine.com/gear/on-deck-soft-shackles</a>
Softie Soft Shackle Construction	<a href="https://www.youtube.com/watch?v=jH66tGsWv_Y">https://www.youtube.com/watch?v=jH66tGsWv_Y</a>
Better Soft Shackle (L-36) diamond	<a href="https://l-36.com/soft_shackle_9.php">https://l-36.com/soft_shackle_9.php</a>
Stronger Soft Shackle (MK 2) overhand	<a href="https://www.youtube.com/watch?v=6wIVZoaSx8I">https://www.youtube.com/watch?v=6wIVZoaSx8I</a>
Easiest Soft Shackle (overhand) break test	<a href="https://www.youtube.com/watch?v=jU_mmdbQeCQ">https://www.youtube.com/watch?v=jU_mmdbQeCQ</a>
Improved Soft Shackle – Allen Edwards	<a href="https://www.youtube.com/watch?v=s8QJEdYqe_E">https://www.youtube.com/watch?v=s8QJEdYqe_E</a>
Improved Soft Shackle (Overhand Knot with Brummel splices and bury – big knot!)	<a href="https://www.youtube.com/watch?v=K0eZz36PRYI">https://www.youtube.com/watch?v=K0eZz36PRYI</a>
Make your own 4x4 soft shackle <i>This is my favorite – uses button knot</i>	<a href="https://www.youtube.com/watch?v=TBTiYf-9Hys">https://www.youtube.com/watch?v=TBTiYf-9Hys</a>
Button Knot Soft Shackle (view MK2 above first)	<a href="https://www.youtube.com/watch?v=HNlqAqo0cc8">https://www.youtube.com/watch?v=HNlqAqo0cc8</a>
Tying the Two-Strand Button Knot	<a href="https://www.dropbox.com/s/y2bzmldyto49wab/Tying%20the%20Two-Strand%20Button%20Knot.pdf?dl=0">https://www.dropbox.com/s/y2bzmldyto49wab/Tying%20the%20Two-Strand%20Button%20Knot.pdf?dl=0</a>
High-Strength Soft Shackles Using the “Brion Toss Button” Knot	<a href="https://www.cruisersforum.com/forums/attachment.php?attachmentid=277711&amp;d=1688587028">https://www.cruisersforum.com/forums/attachment.php?attachmentid=277711&amp;d=1688587028</a>
How Strong are Soft Loops and Steel Snap Shackles	<a href="https://www.youtube.com/watch?v=5qCyVsFO0U4">https://www.youtube.com/watch?v=5qCyVsFO0U4</a>
Button Knot – L-36	<a href="https://l-36.com/button_knot_top.php">https://l-36.com/button_knot_top.php</a>
How to Tie a Button Knot	<a href="https://www.youtube.com/watch?v=rjSqNRxbMVE">https://www.youtube.com/watch?v=rjSqNRxbMVE</a>
Soft Shackles Diamond Knot vs. Button Knot (some fun sailing pics)	<a href="https://www.youtube.com/watch?v=ydUBGinQIUU">https://www.youtube.com/watch?v=ydUBGinQIUU</a>
Plasma vs Amsteel (Dyneema ®) button knot soft shackles – break tests diff. configurations	<a href="https://www.youtube.com/watch?v=7TGwkWBYgX8">https://www.youtube.com/watch?v=7TGwkWBYgX8</a>



<b>Dyneema ® Splices and Soft Shackles – Button</b>	
<b>Knots and Diamond Knots</b>	
Button Knot Soft Shackle D.I.Y.	<a href="https://www.youtube.com/watch?v=HNlgAqo0cc8">https://www.youtube.com/watch?v=HNlgAqo0cc8</a>
Self-Closing Soft Shackle (Button)	<a href="https://www.youtube.com/watch?v=ZDTcdryEKRQ">https://www.youtube.com/watch?v=ZDTcdryEKRQ</a>
A comparison of Soft Shackle Tying Methods – Slack Science	<a href="https://www.balancecommunity.com/blogs/slack-science/a-comparison-of-soft-shackle-methods">https://www.balancecommunity.com/blogs/slack-science/a-comparison-of-soft-shackle-methods</a>
7/64 Dyneema ® Amsteel fast shackle – button	<a href="https://www.youtube.com/watch?v=QYZ3ZL1Mhao">https://www.youtube.com/watch?v=QYZ3ZL1Mhao</a>
7/64" soft shackle comparison, button knot versus standard and improved shackles	<a href="https://www.youtube.com/watch?v=4y8PhffjFkg">https://www.youtube.com/watch?v=4y8PhffjFkg</a>
Diamond Knot (Soft Shackle)	<a href="https://www.youtube.com/watch?v=_iRvKxN9gA4">https://www.youtube.com/watch?v=_iRvKxN9gA4</a>
10-Second Soft Shackles Interesting but nowhere near as strong – much easier to make, though	<a href="https://www.youtube.com/watch?v=hXG17Q__6aY">https://www.youtube.com/watch?v=hXG17Q__6aY</a>
Comparison of Soft Shackles	<a href="https://www.youtube.com/watch?v=4y8PhffjFkg">https://www.youtube.com/watch?v=4y8PhffjFkg</a>
Button Knot Soft Shackles – Tying and Break Strength (1st 14 min. on making button knot)	<a href="https://www.youtube.com/watch?v=91_jEjQdlBU">https://www.youtube.com/watch?v=91_jEjQdlBU</a>
Three tiny soft shackles tested	<a href="https://www.youtube.com/watch?v=ccbFFR_iYyY">https://www.youtube.com/watch?v=ccbFFR_iYyY</a>
High-Strength Soft Shackle L-36 buttons	<a href="https://l-36.com/high_strength_soft_shackle.php">https://l-36.com/high_strength_soft_shackle.php</a>
Easiest Dog-Bone Soft Shackle (Hanks)	<a href="https://www.youtube.com/watch?v=C2kjxtrn36Q">https://www.youtube.com/watch?v=C2kjxtrn36Q</a>
Instructions for Tying the Brion Toss Button Knot for a Soft Shackle with pictures (10-page forum thread)	<a href="https://www.cruisersforum.com/forums/f116/instructions-for-tying-the-brion-toss-button-knot-and-high-strength-soft-shackle-155591.html">https://www.cruisersforum.com/forums/f116/instructions-for-tying-the-brion-toss-button-knot-and-high-strength-soft-shackle-155591.html</a>
Button Knot Tutorial (Part III) Tied with full-size rope	<a href="https://www.youtube.com/watch?v=DYF92CfLD_0">https://www.youtube.com/watch?v=DYF92CfLD_0</a> <i>In my opinion, this is the best tutorial on the knot.</i>
Tying the Button Knot	<a href="https://www.youtube.com/watch?v=t8Gi9UoSs5A">https://www.youtube.com/watch?v=t8Gi9UoSs5A</a>
Soft Shackle Use Technique (break tests)	<a href="https://www.youtube.com/watch?v=sNPhHc3Z9OI">https://www.youtube.com/watch?v=sNPhHc3Z9OI</a>
Dyneema ® Rigging (playlist Rigging Dr.)	<a href="https://www.youtube.com/watch?v=ZqPf-i1jy10&amp;list=PLhcVFGMQmGF46hNmQd7d38H9gZOiv6GkC&amp;index=1">https://www.youtube.com/watch?v=ZqPf-i1jy10&amp;list=PLhcVFGMQmGF46hNmQd7d38H9gZOiv6GkC&amp;index=1</a>
Dyneema ® Rigging (playlist)	<a href="https://www.youtube.com/playlist?list=PLRfmzO8fHP_owq8igZUMXwQUix1VfxtzG">https://www.youtube.com/playlist?list=PLRfmzO8fHP_owq8igZUMXwQUix1VfxtzG</a>
D-Splicer demonstration	<a href="https://www.youtube.com/watch?v=UghIS9xdiDw">https://www.youtube.com/watch?v=UghIS9xdiDw</a>
Tubular Fid vs Toss Wand vs Selma Fids	<a href="https://www.youtube.com/watch?v=lq5AUQ8JCa0">https://www.youtube.com/watch?v=lq5AUQ8JCa0</a>



<b>Dyneema ® Splices and Soft Shackles – Button</b>	
<b>Knots and Diamond Knots</b>	
Adding a Polyester Cover to Dyneema ® Single Braid	<a href="https://www.practical-sailor.com/sails-rigging-deckgear/splicing-a-polyethylene-cover">https://www.practical-sailor.com/sails-rigging-deckgear/splicing-a-polyethylene-cover</a>
Samson Ropes Amsteel ® Blue Specs	<a href="https://www.samsonrope.com/mooring/amsteel--blue">https://www.samsonrope.com/mooring/amsteel--blue</a>
Dyneema ® Lifeline Guidelines – Sail World	<a href="https://www.sailworldcruising.com/n/Respect-the-rope-Dyneema-lifeline-guidelines/-90520?source=duckduckgo">https://www.sailworldcruising.com/n/Respect-the-rope-Dyneema-lifeline-guidelines/-90520?source=duckduckgo</a>
The Mysteries of Sizing Dyneema ® Standing Rigging	<a href="https://sustainablesailing.net/2020/12/15/the-mysteries-of-sizing-dyneema-standing-rigging/">https://sustainablesailing.net/2020/12/15/the-mysteries-of-sizing-dyneema-standing-rigging/</a>
All About Dyneema ® Rigging	<a href="https://www.svb24.com/en/guide/all-about-dyneema-rigging.html">https://www.svb24.com/en/guide/all-about-dyneema-rigging.html</a>
Maximizing Performance – Marlow Ropes	<a href="https://www.marlowropes.com/performance/maximising-performance/">https://www.marlowropes.com/performance/maximising-performance/</a>
Revised Spectra®/Dyneema® Lifeline Requirements US Sailing	<a href="https://www.ussailing.org/wp-content/uploads/2018/01/Dyneema-Spectra-Lifeline-Revision-Jan-2014.pdf">https://www.ussailing.org/wp-content/uploads/2018/01/Dyneema-Spectra-Lifeline-Revision-Jan-2014.pdf</a>
Dyneema ® Abrasion Tests – Practical Sailor	<a href="https://www.practical-sailor.com/sails-rigging-deckgear/dyneema-abrasion-test">https://www.practical-sailor.com/sails-rigging-deckgear/dyneema-abrasion-test</a>
What's More Abrasion Resistant? Technora / Dyneema	<a href="https://www.youtube.com/shorts/UDQP7NAXyh4">https://www.youtube.com/shorts/UDQP7NAXyh4</a>
See also <b>Sailing Links: Rigging Doctor</b>	<a href="https://addbalance.com/Sail/Sailing%20Links.pdf#RiggingDyneema">https://addbalance.com/Sail/Sailing%20Links.pdf#RiggingDyneema</a>

Eye Splices – Nautilus Braids <http://nautilusbraids.co.nz/brummel-splicing/>  
(includes Brummel and Double-Braid as well as spectra core)

Dyneema ® Soft Shackle with Button Knot on Amazon 7/64"  
<https://www.amazon.com/gp/product/B099BZ7SSY?th=1>

Synthetic Rope Comparison Chart [https://christinedemerchant.com/rope\\_material\\_comparison.html](https://christinedemerchant.com/rope_material_comparison.html)

Conversion Chart for Ropes – Units of Measurement <https://ropeinc.com/rope-resources-how-to/conversion-chart>

## The Ashley Book of Knots

<https://ia801906.us.archive.org/11/items/TheAshleyBookOfKnots/the%20ashley%20book%20of%20knots.pdf> - note front material like the cover and table of contents are at the end of the pdf

Ashley Book of Knots – Review (web page)  
[https://www.thepirateking.com/books/books\\_ashleybookofknots\\_review.htm](https://www.thepirateking.com/books/books_ashleybookofknots_review.htm)

Ashley Book of Knots – Review (web page)  
<https://shipsofscale.com/sosforums/threads/the-ashley-book-of-knots-by-clifford-w-ashley.8629/>



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Ashley Book of Knots – Review (video)  
QysGRCZA

<https://www.youtube.com/watch?v=OP-QysGRCZA>

*(This is not a book you want to carry on your sailboat, though. For that use, consider the Animated Knots app.)*

## Samson Ropes: Rope User's Manual

Excellent Resource

<https://www.samsonrope.com/resources/arborist/rope-manual>

Line Selection Guide – by intended use on a sailboat – Samson Ropes

[https://www.samsonrope.com/docs/default-source/brochures/rm\\_line\\_selection\\_guide\\_web.pdf?sfvrsn=5f36249d\\_8](https://www.samsonrope.com/docs/default-source/brochures/rm_line_selection_guide_web.pdf?sfvrsn=5f36249d_8)

## Miscellaneous

### Freeing a Winch Using a Rolling or Midshipman's Hitch

How to free a riding turn (on a winch)

<http://www.yachtingmonthly.com/sailing-skills/free-riding-turn-2-35132>

Demonstration of midshipman's hitch to free jammed winch (at 6:25)

[https://youtu.be/4TLMqo\\_8DZA?si=dgk3v563elMLdNI\\_&t=385](https://youtu.be/4TLMqo_8DZA?si=dgk3v563elMLdNI_&t=385)

Twenty Essential Hitch Knots <https://www.youtube.com/watch?v=1FLshQYEKHQ>

Levels of Knot Tying: Easy to Complex (15 levels) includes practical and decorative knots

<https://www.youtube.com/watch?v=d-hTvYIESfQ>

Breaking Test Knots – Zeppelin & Figure 8 & Alpine Butterfly & Reevee & Bowline & Sheet Bend & Double Fisherman <https://www.youtube.com/watch?v=dagg2-If4h8>

The World's Most Reliable Knot (Prusik Hitch)

<https://www.youtube.com/watch?v=vMz8Qg1uBu4>

Types of Rope (Home Depot, does not include Dyneema ®/Amsteel)

<https://www.youtube.com/watch?v=VcAcbvWuHxU&t=286s>

Yachting Ropes - We look at types of ropes

<https://www.youtube.com/watch?v=nbps08Oc1F0>

Three Kinds of Rope and When to Use Them (compares 3-strand, double-braid, and kernmantle)

<https://www.youtube.com/watch?v=PtDpcezSXlc>

Nylon vs. Polyester vs. Polypropylene Rope | How to Choose the Right Rope

<https://www.youtube.com/watch?v=IAzJx5l4xWY>

I tested "synthetic rope" from Ebay & Amazon (HPME rope) "Chineema"

<https://www.youtube.com/watch?v=J2vBj5rWdXU>

Name Brand vs. Off-Brand Soft Shackles (HPME)

<https://www.youtube.com/watch?v=XOBH7xoYmCY> Rope Construction and Fiber Buying Guide

<https://www.youtube.com/watch?v=1XZDiRiZYc>

Rope Comparison Guide (scroll down)

<https://e-rigging.com/collections/rope>

## Sailing Glossary:

<https://www.dropbox.com/s/ggw55a6hqemnt2f/Glossary%20of%20Sailing%20Terms.pdf?dl=0>





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A Glossary for Practical Knot Tyers – Robert G. Birch 2019 IGKT

<https://igkt.net/component/phocadownload/category/2-pdf?download=146:a-glossary-for-knot-tyers>

## Knot Strength / Effect of Knots on Rope

Why Knots Weaken a Rope <https://www.youtube.com/watch?v=QPWQqN0dSXI>

Knot Break Strength vs. Rope Break Strength

<http://caves.org/section/vertical/nh/50/knotrope-hold.html>

Comparative Testing of High Strength Cord – Tom Moyer, et al.

[https://user.xmission.com/~tmoyer/testing/High\\_Strength\\_Cord.pdf](https://user.xmission.com/~tmoyer/testing/High_Strength_Cord.pdf)

What is the Strongest Sailing Knot? Yachting Monthly

<https://www.yachtingmonthly.com/sailing-skills/strongest-sailing-knot-30247>

<https://www.yachtingmonthly.com/sailing-skills/strongest-sailing-knot-30247>

An Assessment of the Strength of Seizings and Whippings Used to Form an Eye – Douglas Young

[http://personal.strath.ac.uk/andrew.mclaren/Douglas\\_Young\\_2008.pdf](http://personal.strath.ac.uk/andrew.mclaren/Douglas_Young_2008.pdf)

Efficiencies of Common Rope Splices, Knots, Bends, and Hitches

<https://www.mazzellacompanies.com/learning-center/efficiencies-of-common-rope-splices-knots-bends-and-hitches/>

How to Tie 5 TYPES of WHIPPING <https://www.youtube.com/watch?v=NSeqmf9ZtuM>

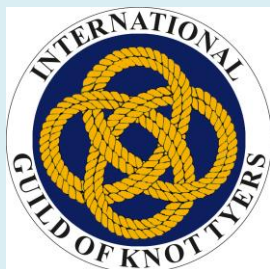
- Sailmaker's Whipping <https://www.youtube.com/watch?v=3wiguF8Uia8>  
[https://www.youtube.com/watch?v=b1niGXg\\_djk](https://www.youtube.com/watch?v=b1niGXg_djk)  
<https://www.youtube.com/watch?v=OJDCC7dCSyg>  
<https://www.youtube.com/watch?v=T0JyTIOPkyw>
- Spiral Whipping <https://www.youtube.com/watch?v=EpmvobHfqow>
- West Country Whipping <https://www.youtube.com/watch?v=AHemz-YiTL0>
- Sailor's Whipping <https://www.youtube.com/watch?v=sMseS7mFABw>
- Common End Whipping <https://www.youtube.com/watch?v=Iji3RXmBGEk>

Rope Strength Tables (Denver Rope) <https://denverrope.com/rope-strength-guide/>

Break Testing Knots (video) <https://www.youtube.com/watch?v=dagg2-If4h8>

Zeppelin & Figure 8 & Alpine Butterfly & Bowline, Sheetbend & Double Fisherman

Boat Line Definitions <http://denverrope.com/definitions.htm>



International Guild of Knot Tyers

<http://www.igkt.net/>

Dyneema ® / Spectra Lifelines

[https://www.cruisingclub.org/pdfs/sas\\_lifelines.pdf](https://www.cruisingclub.org/pdfs/sas_lifelines.pdf)

Installing synthetic line standing rigging (Dyneema ®) <https://www.youtube.com/watch?v=tRe6q7jjbsY>

Knots in Dyneema ® <https://www.youtube.com/watch?v=b9GLp1Esins>



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Knot Test Results – a meta analysis

[paci.com.au/downloads\\_public/knots/Knot-Testing\\_Thomas-Evans\\_2016.pdf](http://paci.com.au/downloads_public/knots/Knot-Testing_Thomas-Evans_2016.pdf)

The Capstan Equation [https://en.wikipedia.org/wiki/Capstan\\_equation](https://en.wikipedia.org/wiki/Capstan_equation)  
How much friction do you get using a capstan/winch?

Sailing Ropes Guide <http://www.cruisingworld.com/how/learning-ropes>

Knowing the Ropes – Sailing: <https://www.mysailing.com.au/knowing-the-ropes/>

Rope Materials – Animated Knots <https://www.animatedknots.com/rope-materials>

Five Ways to Use a Marlinespike Rigging Tool <https://www.youtube.com/watch?v=4brn4uZqnAo>

**UK Scouts Pioneering Knots** <https://scoutpioneering.com/site-map/pioneering-knots/>  
Barrel Hitch, Butterfly Knot, Carrick Bend, Double Sheet-Bend, Draw Hitch (Highwayman's Hitch), Foolproof ways to ALWAYS tie a square knot right, Pipe Hitch, Prusik Hitch, Rolling Hitch (with a bit of misinformation about names), Round Turn and Two Half-Hitches, Scaffold Hitch, (The Misunderstood) Clove Hitch, Timber Hitch, Water Knot, Zeppelin Bend *(Each page has an accompanying video.)*

Knot Analysis – Professional Association of Climbing Instructors – <http://www.paci.com.au/knots.php>

Design and Performance of Ropes for Climbing and Sailing – A.J. McClaren – 38-pg academic  
<https://core.ac.uk/reader/9018408>

Strength of Rope Splices and Knots in Sailing Ropes – William Diamond  
[http://personal.strath.ac.uk/andrew.mclaren/william\\_diamond\\_2007.pdf](http://personal.strath.ac.uk/andrew.mclaren/william_diamond_2007.pdf)

The Only Knot You Need to Know – Here's Why (variations on the marlinespike hitch)  
<https://www.youtube.com/watch?v=2RTyVjZmKp0>  
Marlinespike hitch > Slip Knot > Ashley Stopper > Bowline > Twin Bowline Bend

Simplest, Highest-Value Knot You Can Learn (Slip Knot)  
<https://www.youtube.com/watch?v=jfdnFkLHH6Y>

Marlin Spike Hitch - One Knot Turns into Slip, Loop, Stopper Knot and More  
<https://www.youtube.com/watch?v=3r2UjaV8SVg>

Great Knots You Probably Don't Need to Know  
[http://www.asiteaboutnothing.net/cr\\_knots-other.html](http://www.asiteaboutnothing.net/cr_knots-other.html)

Carrick Bend <https://www.dropbox.com/s/yg617a8erl64rxp/The%20Carrick%20Bend.pdf?dl=0>

Heaving Lines and Throw Bags  
<https://www.youtube.com/watch?v=xXpmvG8yKoo>

Sheetbend <https://www.dropbox.com/s/4mx2r0zxfg79jf/The%20Sheetbend.pdf>

Square knot <https://www.dropbox.com/s/ffdomqixe7knlm7/Square%20Knot.pdf>

Heaving Line Knot – Franciscan Monk's Knot <https://www.youtube.com/watch?v=gdOYDPCUOIU>

Heaving Line Knot <https://www.youtube.com/watch?v=5gKCdN0h4PA>

Heaving Link Knot IGKT <https://www.youtube.com/watch?v=Epfy3DxOiGk>

Making a Rope Ladder <https://www.youtube.com/watch?v=VEXttVyT1A4>

Marlinespike Hitch Ladder <https://www.youtube.com/watch?v=ZOWvDSz9CCc>

Mathematical Knots (and invariants) <https://www.youtube.com/watch?v=EBWP1POPc2A>



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More on the Math of Knots [https://www.youtube.com/watch?v=8DBhTXM\\_Br4](https://www.youtube.com/watch?v=8DBhTXM_Br4)

## Pulleys and Mechanical Advantage

Snatch Blocks – Hot Pulleys Work – Mechanical Advantage

<https://www.youtube.com/watch?v=M2w3NZzPwOM&t=762s>

Pulley Systems Rules Knots & Pulleys in Rope Rigging Systems

<https://www.youtube.com/watch?v=9L-LJvz-cZM>

Staggered Anchors Knots & Pulleys in Rope Rigging Systems

<https://www.youtube.com/watch?v=zZPMjWrg8UU>

Mechanical Advantage is a Myth

Discusses effects of stretch and friction on pulley systems

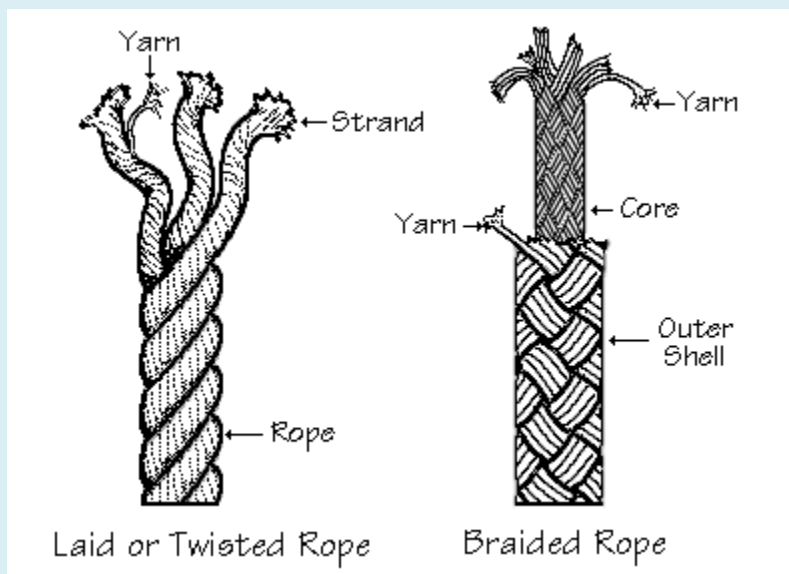
<https://www.youtube.com/watch?v=tUDLNVdSQNw>

Snatch Blocks

<https://www.youtube.com/watch?v=h8QIfuRcEe4>

[https://www.youtube.com/watch?v=jbQLeA8gz6c&lc=UgwkZyDG\\_S5zCFk2XG94AaABAg](https://www.youtube.com/watch?v=jbQLeA8gz6c&lc=UgwkZyDG_S5zCFk2XG94AaABAg)

<https://www.youtube.com/watch?v=6Qwmg3dkJQ8>





# Hooper Sailing Club



## Rope Clinic – a series of videos on knots and line – very good - David Canterbury – outdoors use

Part 1 – terms, kinds of line <https://www.youtube.com/watch?v=gDFQf48B18c>

Part 2 – seizing <https://www.youtube.com/watch?v=j1mD6ASxD8A>

Part 3 – tensile strength v working load and more <https://www.youtube.com/watch?v=2XHhrzoV0u4>

Part 4 – midline loops <https://www.youtube.com/watch?v=MBXE2Jfj7ZM>

Part 5 – midline knots – making nets <https://www.youtube.com/watch?v=yi5Z7MR0Hxs>

Part 6 – Good selection of knots, bends & hitches for woodland use  
<https://www.youtube.com/watch?v=gAHxJv6GCC4>

Part 7 – Isolating a bad area of a piece of rope <https://www.youtube.com/watch?v=cWMLYE-JX9E>

Part 8 – Common Hitches <https://www.youtube.com/watch?v=jUhVfxqqpPI>

Part 9 – Tensioning with Mechanical Advantage <https://www.youtube.com/watch?v=JEyIR9hBZWw>

## Paracord

Ten Reasons You Need a Paracord Bracelet <https://www.youtube.com/watch?v=eQrlbZmVSKs>

## Updates and changes – This is Version 24.61

I expect to be modifying this extensively. I recommend that you use the link below to update each time you want to use it.

It is intended to be used in pdf format so that the links are active. However, I show the full links without underlining so that they are easier to read. This pdf has extensive bookmarks corresponding to the table of contents.

**This version dated 5 January 2024. Here is a link to the latest version.**

Marlinespike Links <https://addbalance.com/Sail/Knots/Links%20Marlinespike.pdf>

The version number (24.61) indicates the year in which the version was released before the decimal point; after the decimal point is the actual number of revisions over the history of the document.  
( 61 )