

# Actually Rigging Stuff



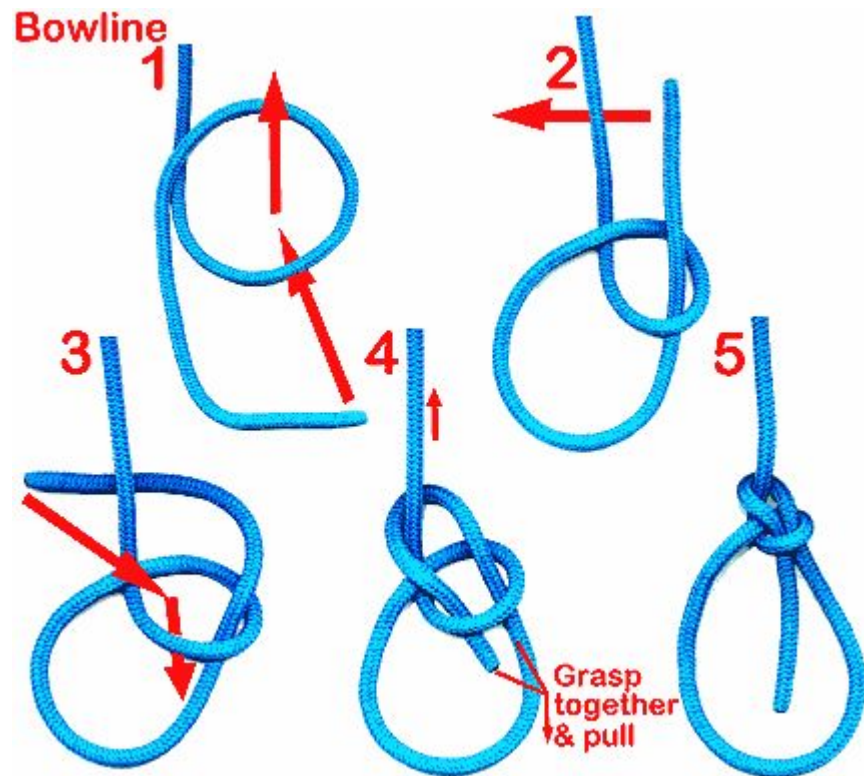
For reals.



# KNOTS!

BOWLINE KNOT:

Used for creating a strong loop

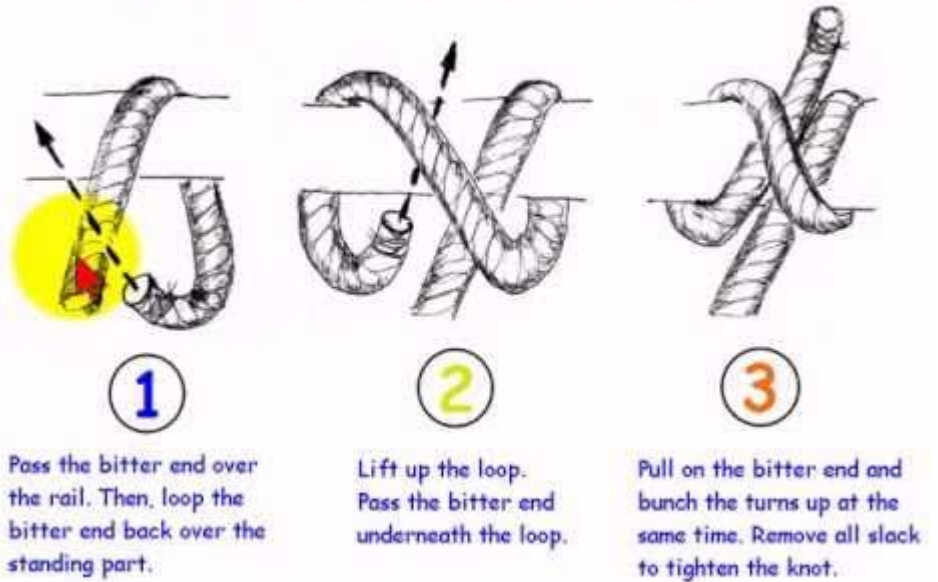


# Clove Hitch

Clove Hitch:

For tying around an object (like a pipe).

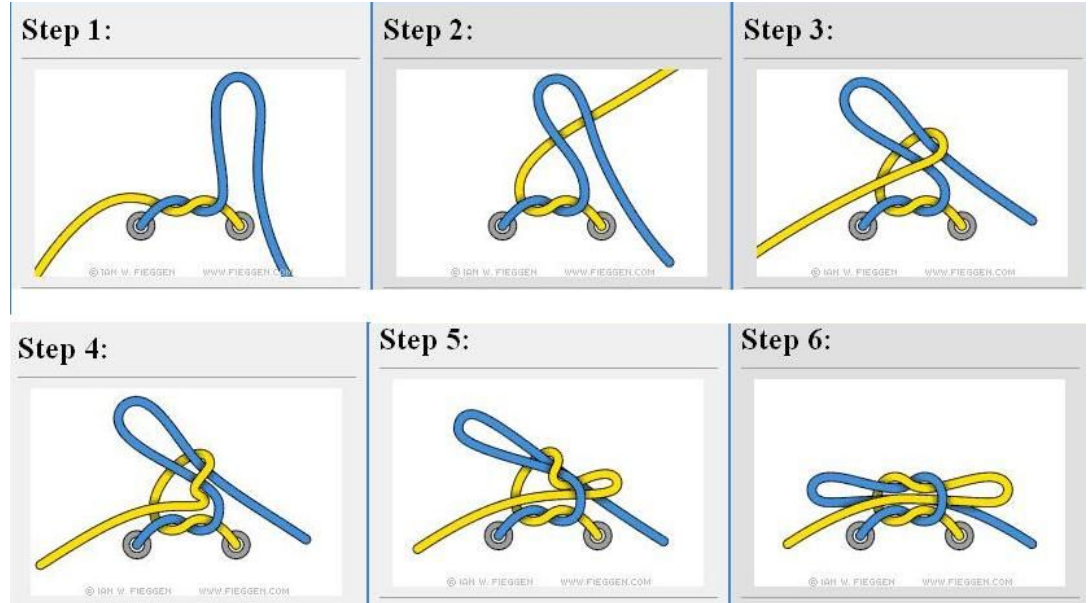
## How to Tie the Clove Hitch Knot



# Shoe Lace Knot

Shoe Lace Knot:

For all kinds of stuff. Mostly drapery and cables.



# Larks Head

Larks head Knot:

A quick, though weak way of tying  
around an object



Lark's Head Knot

# And now the Epic Conclusion

We goin' build ourselves a couple rigging points!

## What's a Rigging point!?

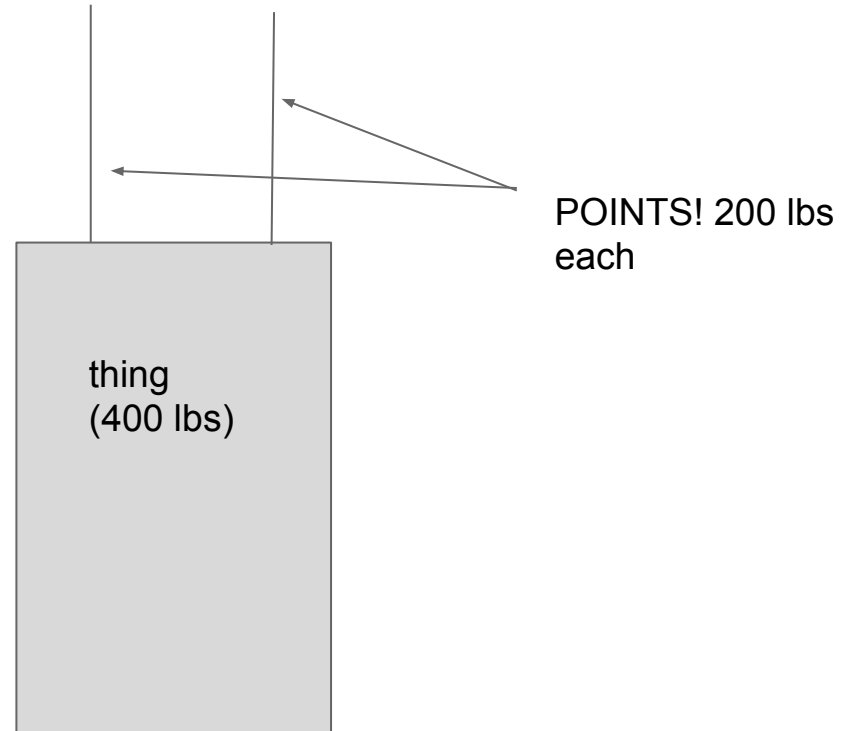
A rigging point is the point at.. which it's uh... rigged. So where the weight is being held. Weight is distributed through each rigging point.

So if something weighs 400 pounds, we don't need to necessarily have a rig capable of 400 pounds, but maybe instead have 2 at 200 pounds!

# Rigging a thing

When a thing is being rigged level (flat) the weight will be distributed evenly.

If a thing is not being hung evenly, a bunch of CRAZY math happens which, perhaps, we'll get to later.





# AGAIN

ALWAYS MAKE SURE YOUR RIG CAN SAFELY  
HOLD THE WEIGHT

So let's figure that out.



# SHACKLES

## Shackles:

Breaking Strength:

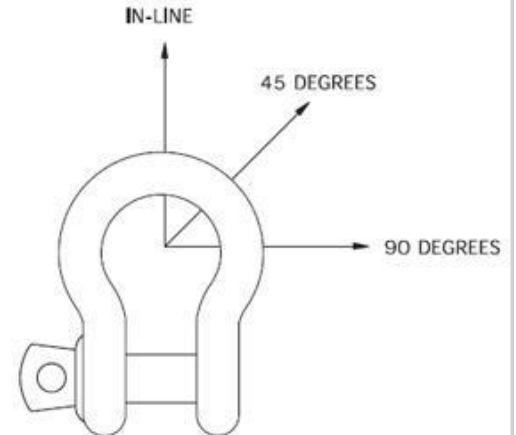
1/4" Shackle: 1/2 Ton

5/16" Shackle: 3/4 Ton



Side loads should be avoided as well, as the products are not designed for this purpose. If side loads cannot be avoided, the following reduction factors must be taken into account:

Load angle	Reduction for side loading New Working Load Limit
0°	100% of original Working Load Limit
45°	70% of original Working Load Limit
90°	50% of original Working Load Limit



# Wire Rope/ Aircraft Cable

## Aircraft Cable:

Breaking Strength:

1/8" 7x19 Galvanized: 2,000lbs.

1/16" 7x7 Galvanized: 480lbs.



# Turnbuckles

**Turnbuckles: J/J, E/E, J/E**

Load Rating:

1/4": 500 lbs.

5/16": 800lbs.



# Verlocks

## **Verlocks:**

Load Rating:

1/8" Verlocks: 250lbs.

1/16" Verlocks: 60lbs.



# CHAIN CHAIN CHAAAAAAAIN

## **Chain:**

Load Rating:

2/0 Passing Link Chain: 450lbs.

4/0 Passing Link Chain: 600lbs.



# THESE THINGS

## **Batten Clamps:**

Load Rating:

1 ¼": 1,200lbs.

1 ½": 1,200lbs.



## **Quick links:**

Load Rating:

1/8": 220lbs.

3/16": 620lbs.



# ALSO THESE!

**Chesebro: UNBREAKABLE! (Mostly)**



**Cable Clips (CROSBY Clips):**

Load Rating:

1/8"-7/8": 80% efficiency of the corresponding cable



**Swage Sleeves (Nicopress):**

Load Rating:

1/16"-1/8": 90% cable efficiency of the corresponding cable when hand crimped, 100% when machine crimped



**Thimbles: N/A**





# Let's build a thing!

HANDOUTS BUILDING!

For the overall length: You want from the batten to the absolute bottom of your rig.

# Stage Weights

Come in many sizes and shapes

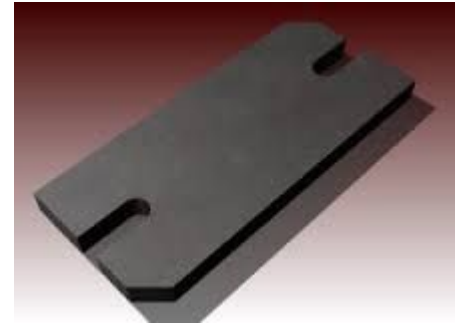
Always have notches spaces

Generally have notches to ease removal

Generally “full brick” and “half brick”

Here our full bricks are ~22lbs

half are ~11 lbs



# Now let's learn how to do stage weights!

1. Call and make sure it's safe and clear below
2. Undo the top locking plate
3. Clamp spacer plates out of the way
4. Carefully move the weight from the floor onto the arbor
5. Set the weight into the arbor, getting both bars into position.
  - a. Make sure you alternate notches in the weights
6. Repeat for too much
7. Place a spacer where indicated on the arbor.
8. Once done, unclamp remaining spacers, put down locking plate.
9. Call that you've put X amount of weight in the arbor.