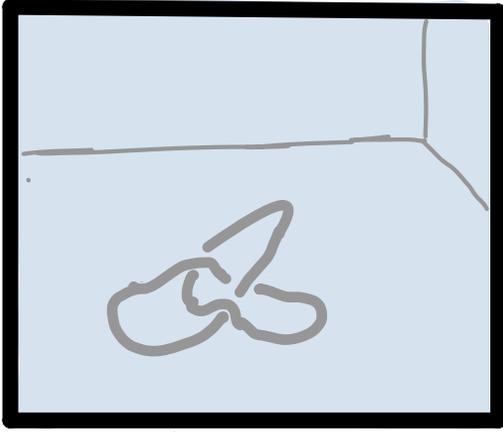
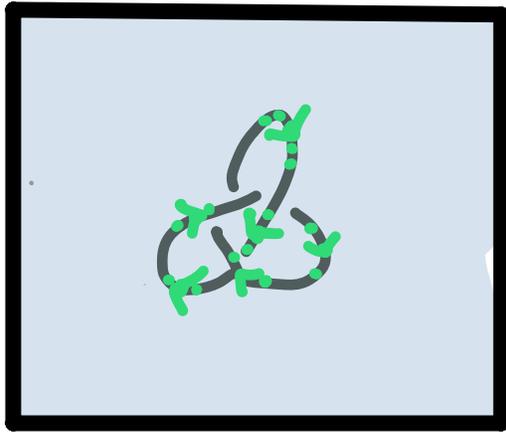


Introduction ~ 30 secs



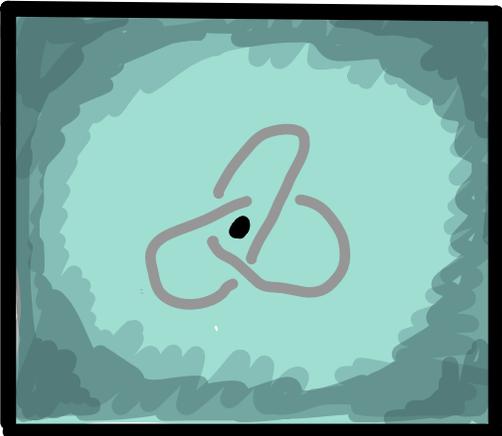
knotted rope on floor
"To a mathematician, a knot is a continuous loop of rope, with no loose ends"



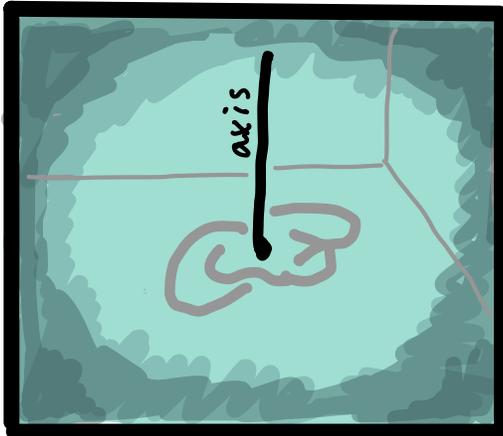
(view from above)
The rope will light up showing a flow or direction along the knot. This will be done w/ LED's
"knots have a directional flow called an orientation"

musical feel : quirky, curious, lyrical but some percussion

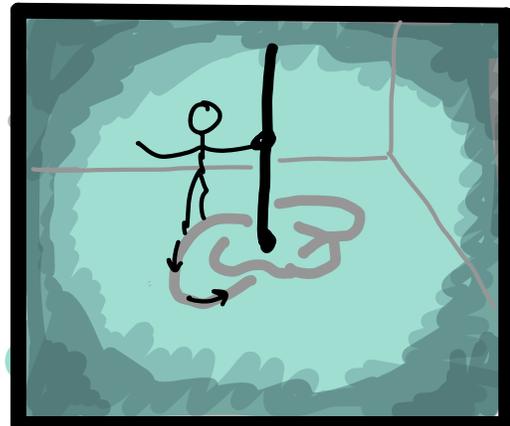
What is braid position ~ 1 min



start filming from above



camera moves down so you see the pole from the side



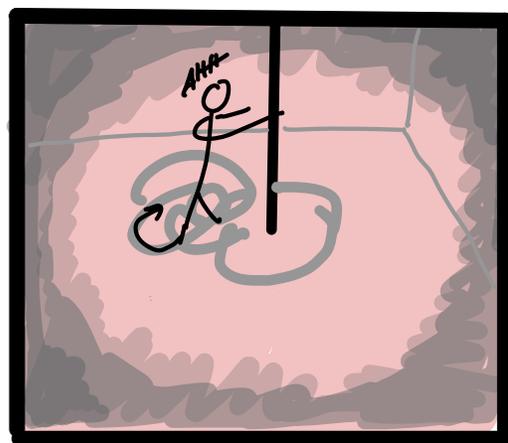
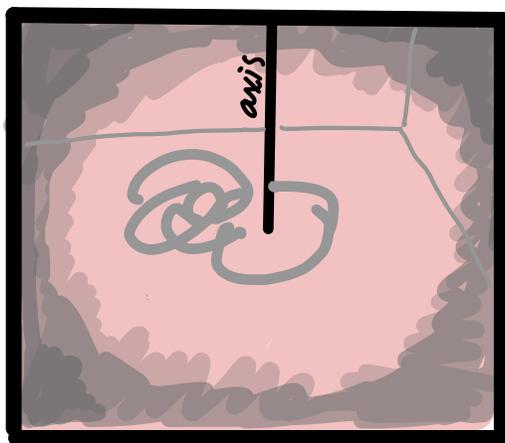
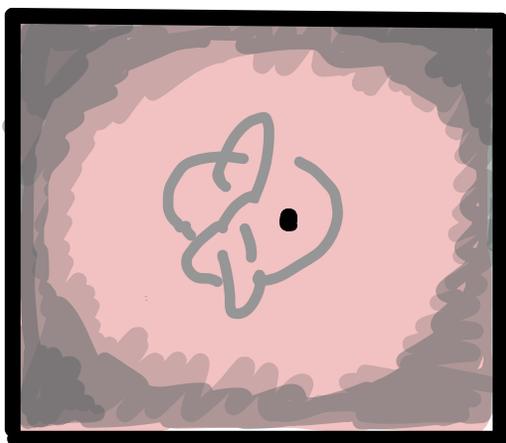
dancer walks along the knot w/ one hand on the pole

"a knot is in braid position with respect to an axis for the knot if...." → "you can walk along the knot w/ one hand on the axis circling the knot w/out changing direction"

color: Green

musical feel: lyrical, cyclical, beautiful
the pole dancer does smooth + graceful spins

When a knot isn't in braid position ~1 min



"a knot is not in braid position with respect to an axis if you cannot traverse the whole knot while keeping one hand on the axis w/out changing direction"

musical feel: still lyrical + cyclic but with choppy moments of interruptions

the pole dancer tries to spin but keeps having to step because the knot changes direction

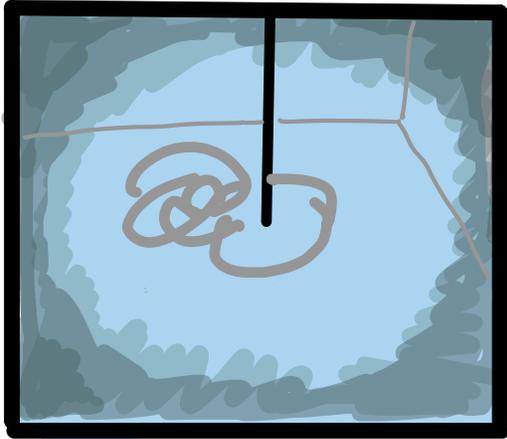
color: Red

Alexander's theorem ~2 min

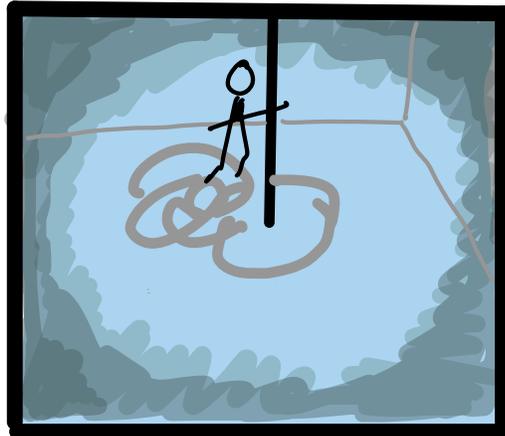
"alexander's theorem states that every knot can be reconfigured to be in braid position"

musical feel: magical, lyrical,
suspenseful

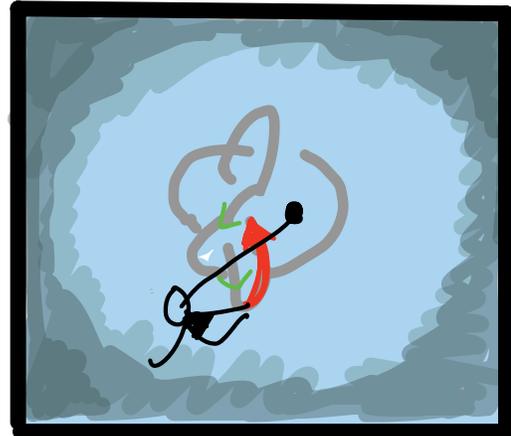
color: Blue



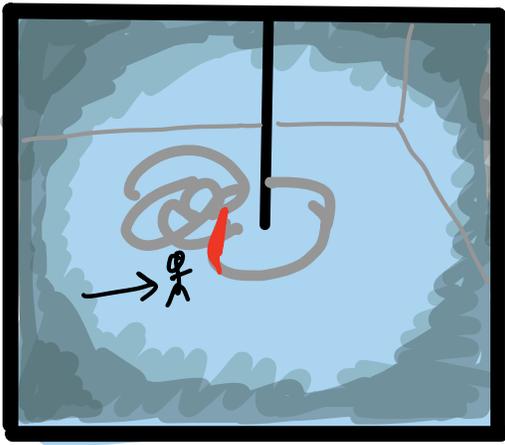
start: place the axis anywhere



pole dancer starts to walk around the knot until she gets stuck



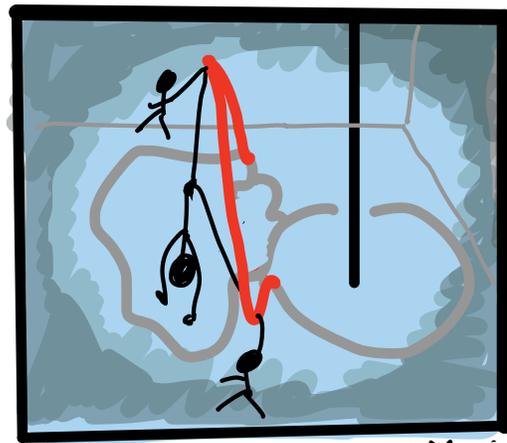
a portion of the knot lights up red that is going in the wrong direction
filmed from above



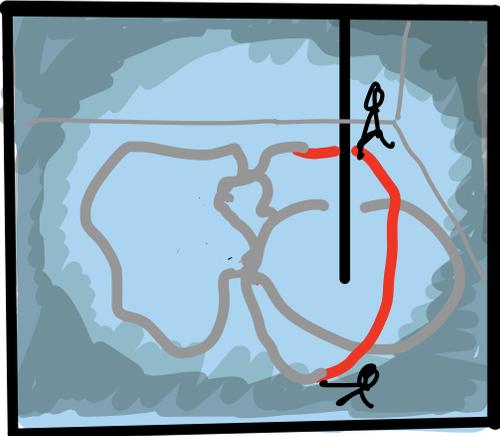
new dancer
walks in
"the acrobat"



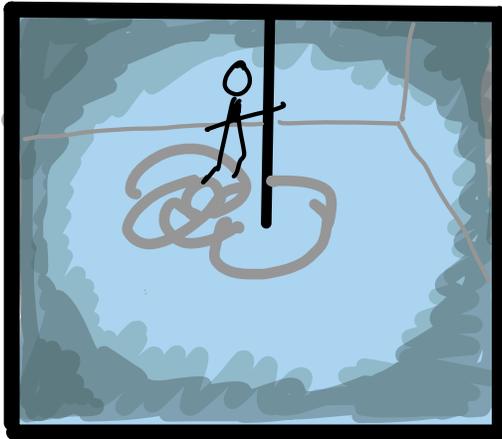
does a hand stand
+ picks up red
rope with her feet



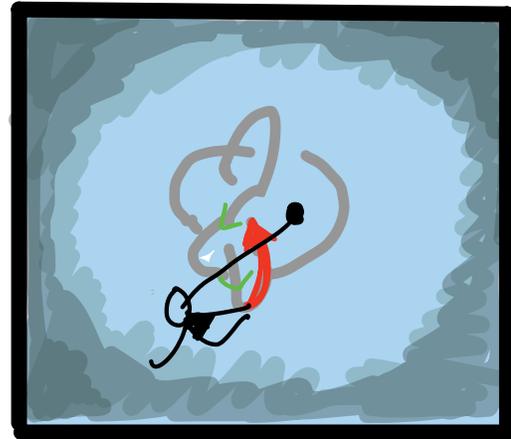
acrobat does splits
+ hands the red
rope to two helpers



helpers move red
rope to other side
the pole + rope
stops being colored
red.



repeat:
poke dancer walk
out and finds
the next



red rope going
the way
direction
repeat acrobat
dance

ending

big celebration + spinning, cyclical
and victorious