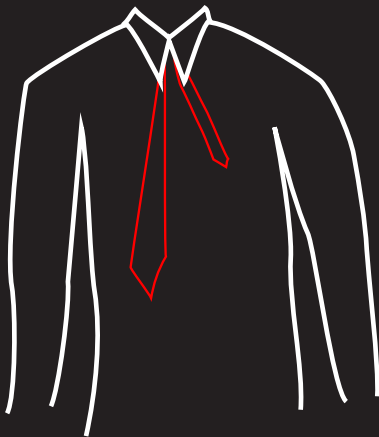


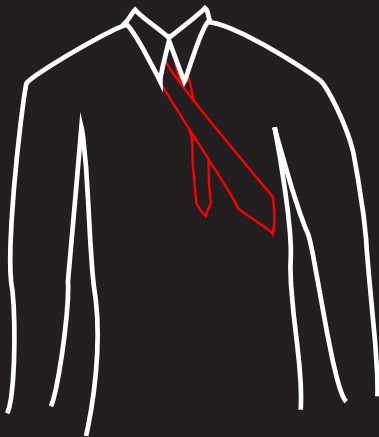
Tie knot notation

A primer

Starting the knot



Seam in



Seam out



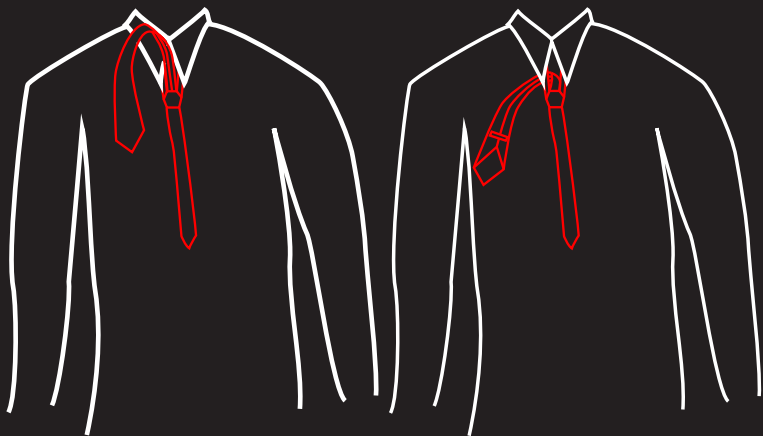
Move to the left



L

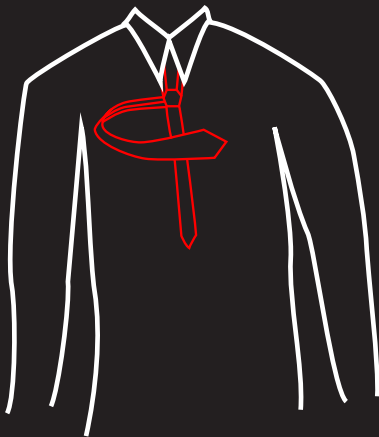


From the right



From the center

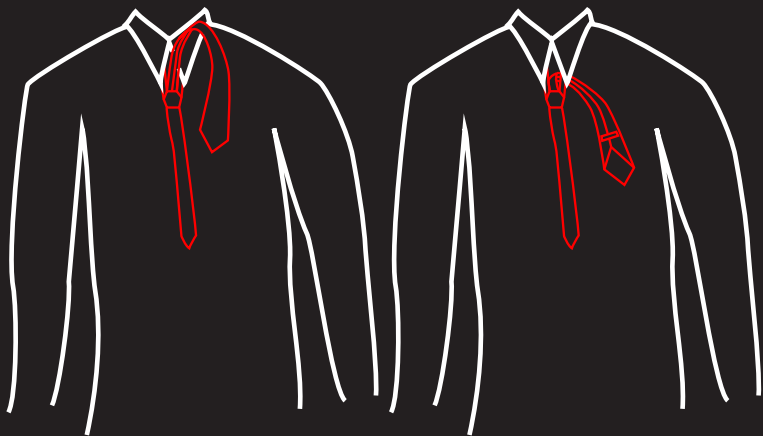
Move to the right



R

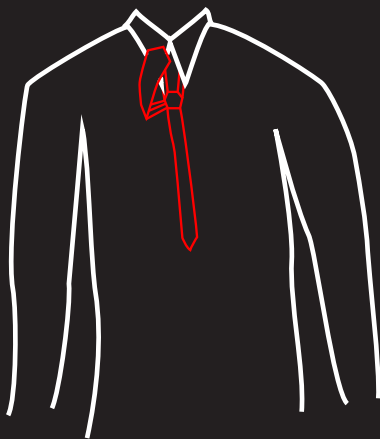


From the left



From the center

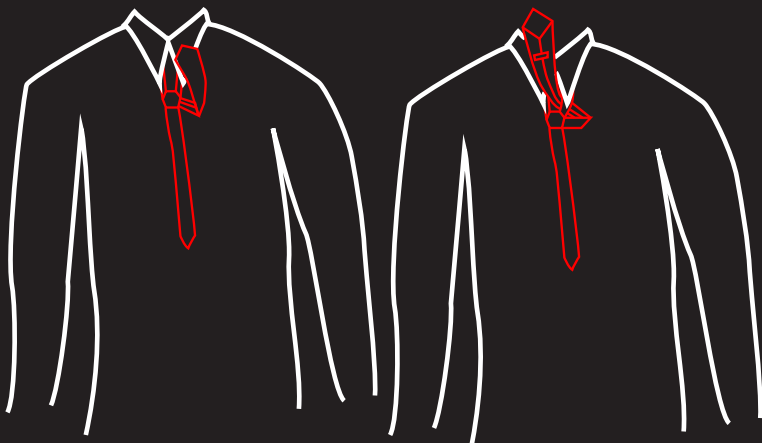
Move to the center



C



From the left



From the right

Tucking under



U





Rules for reading a tieknot

Alternate front and back.

The first L symbol is the start crossing.

For an Under move, move under the most recent bow placed across the knot.

If the U symbol repeats, go under earlier bands as well.

For knots that end with RU or LU, drape reverse and use the thin blade to tie the knot.

Named tieknots

4-in-hand	So LRLCU
Half windsor	So LRCLRCU
Windsor	So LCRLCRLCU
Pratt (or Shelby)	Si LCLRCU
St Andrew	Si LRLCRLCU
Christensen / Cross	So LRCLRLRCUU
Balthus	So LCRCLCRLCU
Trinity (thin blade)	So LCLRCRLCURLU
Eldredge (thin blade)	So LCRLRCRLUCRCLU
Edeity (thin blade)	So LCLRCRLCU

A short history of tie knots

- 1600s Croatian mercenaries wear knotted neckerchiefs
Inspired from them, Louis XIV starts wearing *cravates* and sparks a fashion craze.
- 1800s Cravat tying guide *Neckclothitania* is published
The modern necktie and bow tie emerge with the industrial revolution
The 4-in-hand knot emerges, possibly from a type of carriage driver's scarf knot.
- 1999 T Fink and Y Mao enumerate possible tie knots.
- 2003 Matrix Revolutions is released, featuring the Merovingian, who wears a tie knot not listed by Fink & Mao. An internet subculture emerges trying to reconstruct the Merovingian knot.
- 2015 M Vejdemo-Johansson and collaborators enumerate tie knots including the new constructions.

Source: Wikipedia, xirdalium.net

Tie knot enumerations

85 knots found by

T Fink and Y Mao

Designing tieknots by random walks

Nature 1999

<http://www.tcm.phy.cam.ac.uk/~tmf20/tieknots.shtml>

266 682 knots found by

D Hirsch, I Markström, ML Patterson, A Sandberg and

M Vejdemo-Johansson

More ties than we thought

PeerJ Computer Science 2015

<https://peerj.com/articles/cs-2/>

<http://tieknots.johanssons.org/>

Produced for TEDxKTH, 8 December 2015

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