Posting Date:	Level:	Title:	Species:
2018-02-27	Beginner	Structural Wiring	Any

- 1) Structural Wiring principles apply to trunk & primaries ONLY
- 2) Consistently: apply wire at 55-60°; same turn spacing
 - a) Even at shoulder/collar/base crossings!!! (no coiling!)
- 3) No substantial air gaps (hug, don't squeeze, bark w/wire)

4) "Same angle, same spacing, no gaps"

- 5) Position your body to the **side** of the branch
- 6) Function depends upon **points of immobility (poi)**:
 - a) On crown of root system at trunk base
 - b) On collar of each primary branch
- 7) Cross trunk base or branch collar **opposite** bend direction
 - a) Wire stretches at poi then resists spring-back forces
 - b) Except when acute angle prevents shoulder/collar contact
 - i) Can twist when bending to take up the slack
 - ii) And/or use guy wire
- 8) During actual bend, press wire to tree firmly at poi
- 9) Leave extra length of wire to maintain leverage
- 10) Apply with **straight-line motions** to cover each 90° of wrap
- 11) Avoid unnecessary (un)bending of wire during application
- 12) Support branch/trunk just 1/2 turn behind w/other hand
- 13) Pair nearby branches needing similar gauge w/same wire
- 14) Protect crotches on primaries by wiring outside not inside
- 15) Wire 11/2 turns beyond a crotch where gauge should change
- 16) Bend at point where wire touches INSIDE of curve
 - a) Bend point (bp) is **fulcrum**: hold/press wire in place there!
 - b) Also hold/press wire on opposite side 1/2 turn away
 - c) Limit bend: watch bark opposite bp start to separate
- 17) Bend so branches emerge on outside of curve (Creates fan-shaped pads)

2018-05-08	Beginner	Detail Wiring (Part 1)	Any
Posting Date:	Level:	Title:	Species:

- 1) Builds upon structural wiring backbone/skeleton
- 2) Consistently: apply wire at 55-60°; same turn spacinga) No coiling!
- 3) No substantial air gaps (hug, don't squeeze, bark w/wire)
- 4) "Same angle, same spacing, no gaps"
- 5) Position your body in **front** of the branch, looking along it toward trunk
- 6) **Prepare** branch carefully prior to wiring:
 - a) **Clean** crotches: assure ½-¼" gaps for wire
 - b) Remove dead & weak growth
 - c) Leave only 2 branches per node/crotch
 - d) Prefer lateral over top/bottom unless "needs must"
 - e) Decide lengths for **desired silhouette NOW**
 - f) Prune tertiary (deciduous) to ≥ 2 buds for taper/backbudding
- 7) Pair nearby branches of similar size to share wire
- 8) Overlap previous thicker wire on one of each pair
 - a) Follow helical path of thicker wire
- 9) Other half of pair must have **opposite** helical orientation
- 10) Never change helical orientation once cw or ccw is chosen!
- 11) Always enter any crotch from outside (trunk-side)
- 12) Leave 1½ turns beyond the terminal crotch
- 13) "Off" hand: **gently pinch** wire-to-branch ~½ turn behind
- 14) Wire underneath tip (to support & protect); no loop!
- 15) Crossing wires *sometimes* necessary to avoid see-saw

Posting Date:	Level:	Title:	Species:
2018-05-29	Beginner	Detail Wiring (Part 2)	Any

- 1) First bend of child branch **ALWAYS INWARD** toward parent ("main")
- 2) Second bend **always out**, away from parent branch ("sun")
- 3) "In toward the main, out toward the sun"
- 4) Adjust up/down bends to keep pad bottom flat
- 5) Bend secondaries/tertiaries subtly compared to primaries
- 6) One goal is to assure good light to all foliage! (photosynthetic efficiency)
- 7) "Keep it simple, keep it straight"
- 8) PINE tips should point SLIGHTLY upward
- 9) Still should make contact with collar at forks!
- 10) Same angle, same spacing, no gaps!
- 11) If have less than 1.5 turns of structural wire to overlap. can cross wire if it provides support
- 12) No crossing of structural branches but fine tips can cross subtly as long as good light to all foliage
- 13) Strive toward uniform foliage distributions
- 14) Once a wire starts as CW (or CCW), it should NOT change
- 15) Off-hand should hold branch and wire together while wire goes on, moving outward on each turn
- 16) Avoid breaking PINE needles by careful support by off-hand from below
- 17) PINE branching can be multi-layered pads (so can cross branches)
- 18) Pluck PINE needles where needed so as to avoid crushing them
- 19) Lay down elongating species foliage pads FLAT (hemlock, larch, redwood, etc.)
- 20) Deciduous styling: more dramatic bends than conifers, as well as variation in vertical foliage distribution
- 21) Well executed deciduous wiring requires ONE structural & TWO detail wirings, followed by CLIP & GROW
- 22) MASCULINE design should have larger pad width & thickness, more merged/unified pads
- 23) FEMININE design should have narrower, more separate, and thinner pads
- 24) DECIDUOUS lend themselves to more feminine design