

Successful Tree Establishment **PLANTING**

La Fab / Hendrick Farm

Chelsea, Québec

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Paul Hetzler, ISA Certified Arborist

Tree Planting

- Rule #1

Green side up, folks...We need to see the branches.



Em...Still Need to Work on Technique.




Actually, That's Even Worse!



(and no, the big problem is not the container left in the hole.)

1. Locate the « Planting Depth Gauge » (Trunk Flare)





**Trunk Flare is SELDOM at the
Soil Level in the Container or
Root Ball!**

Keep In Mind:

Tree Transplants are Missing Their Root Systems

If B&B, 80% - 90% of the of roots have been cut.

If container-grown, circling roots are often an issue.

▀ **“The Planting Hole”**

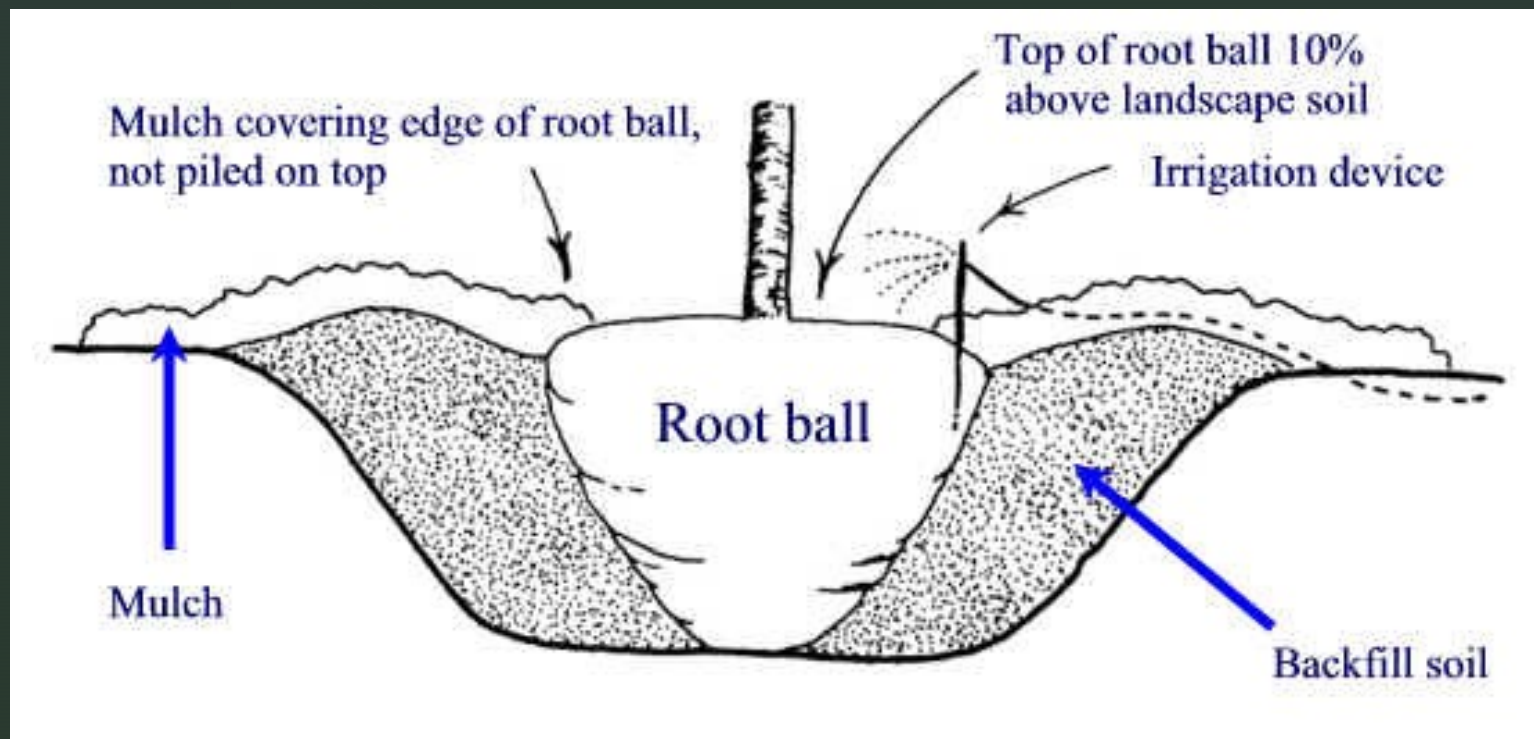
SAUCER-SHAPED

2 to 3 Times WIDER then the Root Ball

NO DEEPER THAN ROOT BALL

Hole is 2-3x wider than Root Ball!

Root ball sits on Undisturbed Soil



WRONG

Bad contractor! No biscuit!



RIGHT!

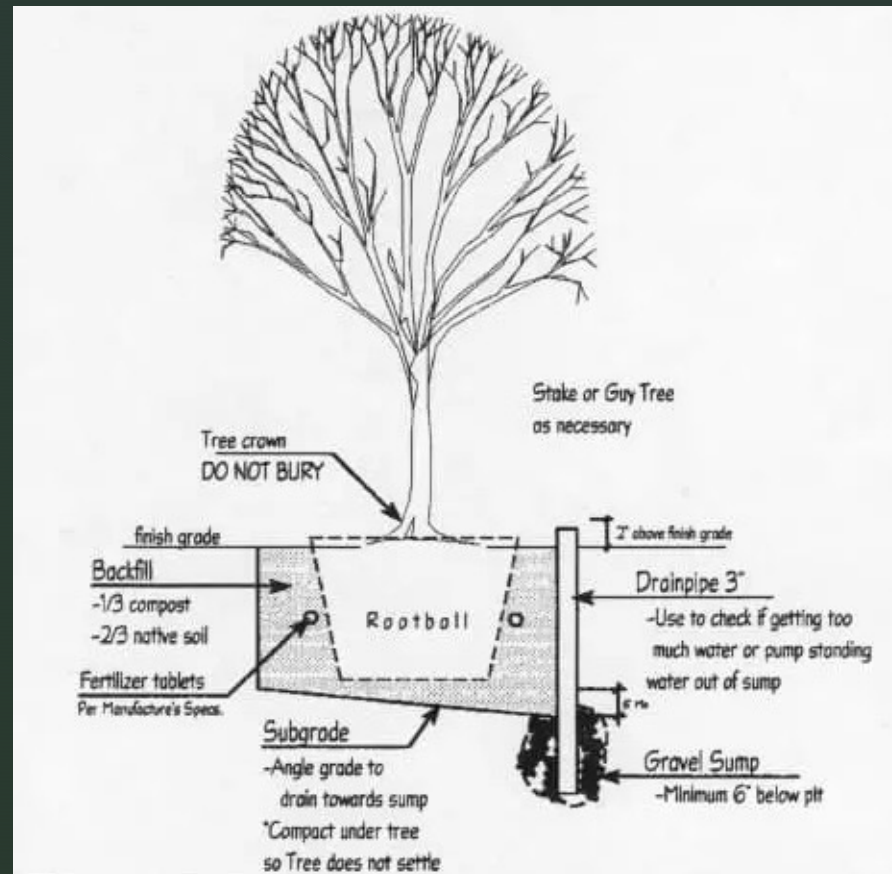


DON'T Put A Tree Here!



Plant High, Provide Drainage, Use Wet-Tolerant Species

Wet Sites Require Planting High or Sump Drainage.



Proper Planting Practice

- Adequate sized hole / Trou de taille adéquate
- Flayed roots / racines d'arbre écorchées
- Check depth / vérifier la profondeur
- Water deeply / arroser profondément
- Compost & mulch on surface / Compost et paillis en surface



Planting depth is critical!

These are too deep





What's the Problem with Deep Planting?

Well...

Roots need this stuff





Radial Trenching:

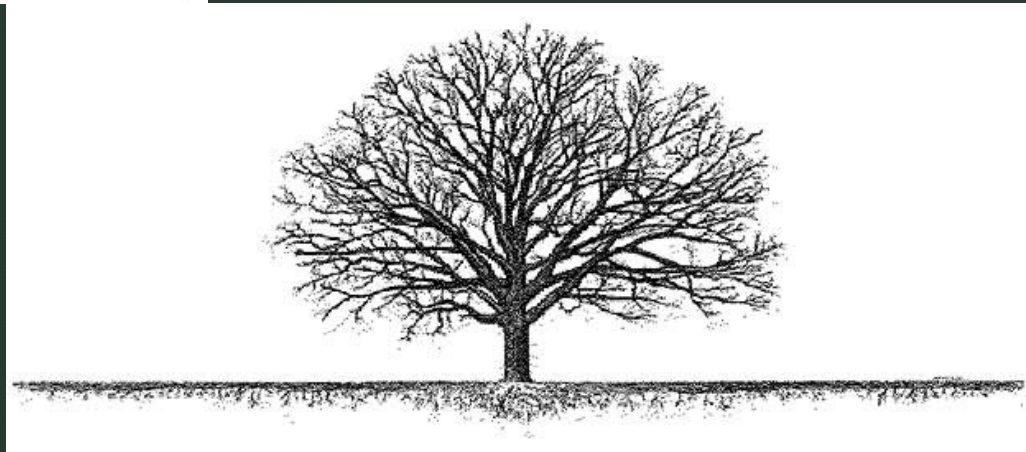
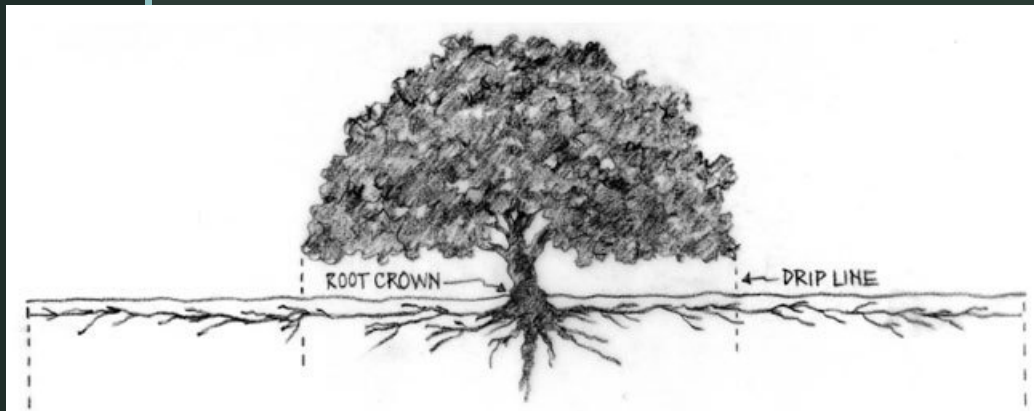
For Extreme Compaction

Can Be Done After the Fact

Can Improve Drainage



Tree Roots: 90% in top 25 cm; 98% in top 45 cm



NOT HOW TREE ROOTS GROW !!!









**Rootbound:
A Very Common
Condition.**

**Roots MUST
be cut or tree
will not thrive.**



Leads to this...



And this: **Girdling Roots**



Fixing it up to Prevent Problems



Symptoms of girdling root and/ or deep planting



Orient Tree in Hole According to Prevailing Wind.



**Bare-root with hydrophilic polymer gel (a.k.a. snot)
= 100% of roots intact! Few nurseries set up for this...**





Plus, bare root is a lot cheaper to ship than B&B



Mulching

Natural Material (wood chips, no colourant)

6-10 cm deep

NOT touching the trunk

Over entire planting hole.

No Volcanoes!



Canadian Volcano Outbreak, BC, 2018





Yes!



Please do NOT stake...

- unless there are vampires involved.





Trunk Guards to Prevent « Lawn-Mower Blight »



Hold the Fertilizer, Please!





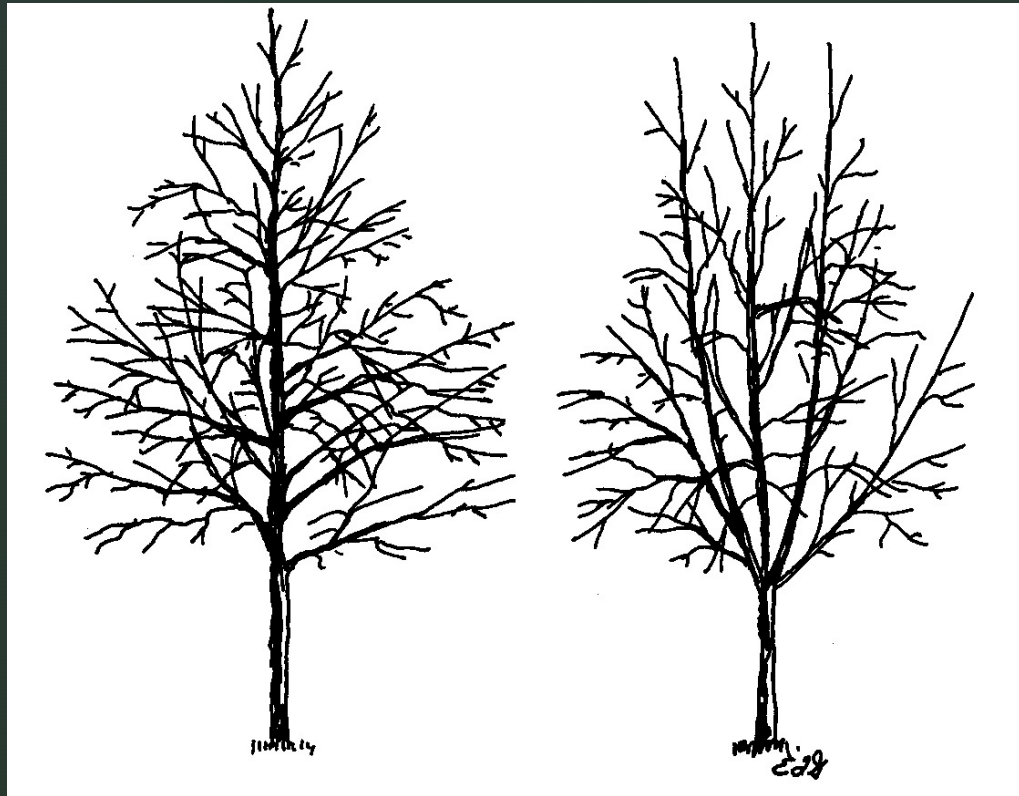
Selection



Single trunk



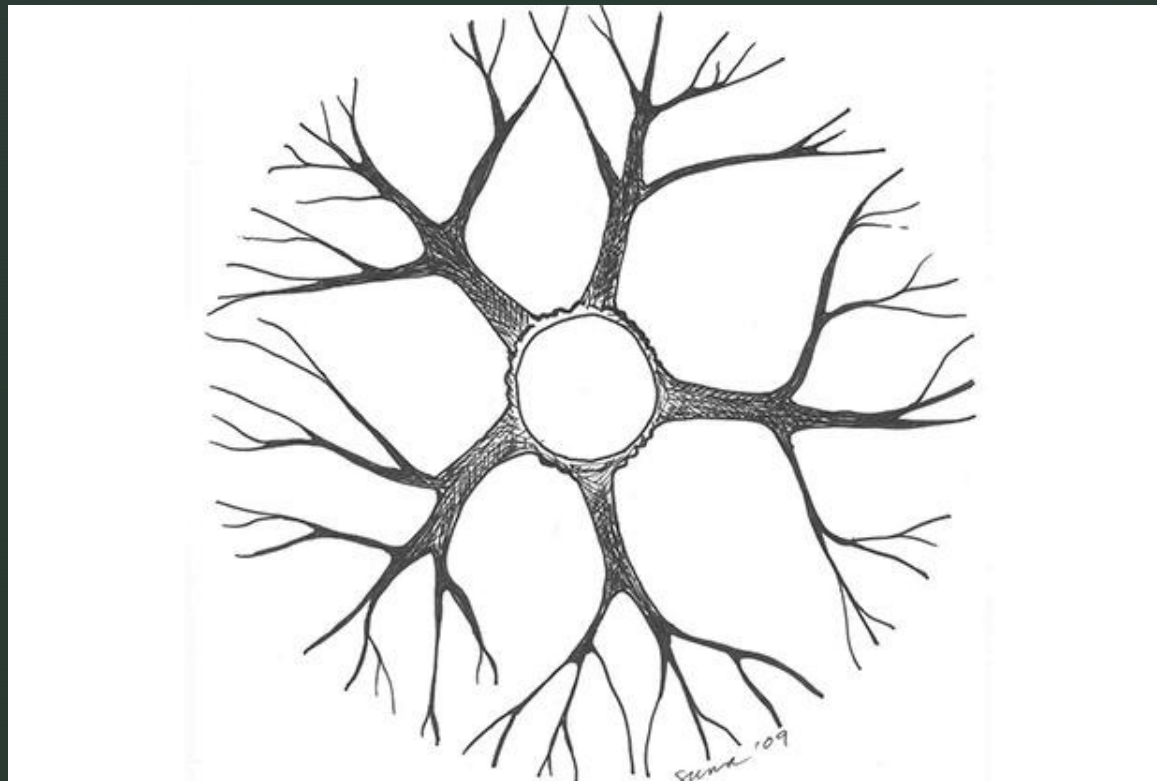
Good form vs. poor form



Vertical symmetry



Radial symmetry



Right tree, right place:

How tall, how wide,
and where will the roots go?





Right Tree, Right Place

- **Species**
- **Cultivar**
- **Provenance**

Questions?

