

[Tree has needles](#) -- Coniferous Trees

Example:



What is a dichotomou

A dichotomous key is one tool that can be used to identify trees, flowers, animals, rocks, fish, and more! A dichotomous key leads the user to the correct name of an item. "Dichotomous" means "two choices." A dichotomous key will always give two choices in each step.

[Tree has broad leaves](#) -- Deciduous Trees

Example:



How to use this key

1. Use leaves from a tree or find a picture of a tree you want to identify. Match the appropriate match to the right.

or

2. Click one of the numbers below to identify one of our many matching pictures you have identified the tree correctly.

or

3. Choose a tree from the species list below that you want to identify.

Choose a tree to identify

[1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [11](#) [12](#) [13](#) [14](#) [15](#)
[16](#) [17](#) [18](#) [19](#) [20](#) [21](#) [22](#) [23](#) [24](#) [25](#) [26](#) [27](#)



Do you know what kind of tree this pinecone is from?

Use this key to find out!

Choose number 7 from the list above.

List of tree species in this key.

(this list is not an answer key
to the mystery trees above)

Common name	Scientific name
1. <u>American Beech</u>	<u><i>Fagus grandifolia</i></u>
2. <u>Balsam Fir</u>	<u><i>Abies balsamea</i></u>
3. <u>Basswood</u>	<u><i>Tilia americana</i></u>
4. <u>Big Toothed Aspen</u>	<u><i>Populus grandidentata</i></u>
5. <u>Black Ash</u>	<u><i>Fraxinus nigra</i></u>
6. <u>Black Cherry</u>	<u><i>Prunus serotina</i></u>
7. <u>Black Spruce</u>	<u><i>Picea mariana</i></u>
8. <u>Black Walnut</u>	<u><i>Juglans nigra</i></u>
9. <u>Cottonwood</u>	<u><i>Populus deltoides</i></u>
10. <u>Eastern Hemlock</u>	<u><i>Tsuga canadensis</i></u>
11. <u>Jack Pine</u>	<u><i>Pinus banksiana</i></u>
12. <u>Northern White Cedar</u>	<u><i>Picea abies</i></u>
13. <u>Norway Spruce</u>	<u><i>Acer rubrum</i></u>
14. <u>Red Maple</u>	<u><i>Quercus rubra</i></u>
15. <u>Red Oak</u>	<u><i>Pinus resinosa</i></u>
16. <u>Red Pine</u>	<u><i>Pinus sylvestris</i></u>
17. <u>Scotch Pine</u>	<u><i>Carya ovata</i></u>
18. <u>Shagbark Hickory</u>	<u><i>Acer saccharum</i></u>
19. <u>Sugar Maple</u>	<u><i>Larix laricina</i></u>
20. <u>Tamarack</u>	<u><i>Populus tremuloides</i></u>
21. <u>Trembling Aspen</u>	<u><i>Fraxinus americana</i></u> <u><i>Betula papyrifera</i></u>

22. <u>White Ash</u>	<u><i>Quercus alba</i></u>
23. <u>White Birch</u>	<u><i>Pinus strobus</i></u>
24. <u>White Oak</u>	<u><i>Picea glauca</i></u>
25. <u>White Pine</u>	<u><i>Betula alleghaniensis</i></u>
26. <u>White Spruce</u>	
27. <u>Yellow Birch</u>	

This Tree Identification Key was created for *Wisconsin Forestry-Bridging the Gap Between Environment and Economy*, Central Wisconsin Environmental Station, 2001 under a grant from the Wisconsin Department of Commerce. Modified and maintained by the LEAF Program with permission.

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 For website related comments contact: leaf@uwsp.edu

So far you have chosen:

 [tree has needles](#)

[\(click a choice above to go back to that part of the key\)](#)

[Needles in bundles or groups](#)

Example:



[Needles single or flattened and scaly](#)

Example of flattened, scaly needles:



So far you have chosen:

 [tree has needles](#)

 [needles in bundles or groups](#)

(click a choice above to go back to that part of the key)

Needles in clusters

Example:



You have a:
[Tamarack](#)
(*Larix laricina*)

[Needles 2-5 per bundle](#)

Example:







Tamarack *Larix laricina*


Learn more about the tamarack in the
[Silvics of North America](#)

[Identify a new tree](#)

So far you have chosen:

 [tree has needles](#)

 [needles in bundles or groups](#)

 [needles 2-5 per bundle](#)

(click a choice above to go back to that part of the key)

Five needles per bundle

Example:



You have a:
[White pine](#)
(*Pinus strobus*)

[Needles in pairs](#)

Example:





White Pine *Pinus strobus*

Learn more about the white pine in the [Silvics of North America](#)

[Identify a new tree](#)

So far you have chosen:

 [tree has needles](#)

 [needles in bundles or groups](#)

 [needles 2-5 per bundle](#)

 [needles in pairs](#)

[**\(click a choice above to go back to that part of the key\)**](#)

Needles 3-4 inches long

Example:



You have a:

[**Red Pine**](#)

[*\(Pinus resinosa\)*](#)

[**Needles under 2 inches**](#)










Red Pine *Pinus resinosa*

Learn more about the red pine in the [Silvics of North America](#)

[Identify a new tree](#)

So far you have chosen:

-  [tree has needles](#)
-  [needles in bundles or groups](#)
-  [needles 2-5 per bundle](#)
-  [needles in pairs](#)
-  [needles under 2 inches long](#)

(click a choice above to go back to that part of the key)

Bark dark gray

Example:



You have a:
[Jack Pine](#)
(Pinus banksiana)

Bark orange-brown, cones 1-2.5 inches long

Example:



You have a:
[Scotch Pine](#)
(Pinus sylvestris)

So far you have chosen:



[needles single or flattened and scaly](#)

(click a choice above to go back to that part of the key)

[Needles square, round or scaly](#)

Example of round needles:



[Needles flat](#)

Example:



So far you have chosen:

 [needles single or flattened and scaly](#)

 [needles square, round or scaly](#)

(click a choice above to go back to that part of the key)

Needles scaly and flattened

Example:



You have a:
[Northern White
Cedar](#)
(*Thuja occidentalis*)

[Needles square or round](#)

Example:





Northern White Cedar -
Thuja occidentalis

Learn more about the northern white cedar in the
[Silvics of North America](#)

[Identify a new tree](#)

So far you have chosen:

 [needles single or flattened and scaly](#)

 [needles square, round or scaly](#)

 [needles square or round](#)

(click a choice above to go back to that part of the key)

Needles 1/3-3/4 inch long, twig hairless

Example:



You have a:
[White Spruce](#)
(*Picea glauca*)

Needles 1/4-3/4 inch long, new twigs have hair, grows in wet areas

Example:



You have a:
[Black Spruce](#)
(*Picea mariana*)

Needles 1/4-3/4 inches long, droopy branches, cones 4-7 inches long

Example:



You have a:
Norway Spruce
(Picea abies)



White Spruce *Picea glauca*

Learn more about the white spruce in the
[Silvics of North America](#)

[Identify a new tree](#)



Black Spruce *Picea mariana*

Learn more about the black spruce in the [Silvics of North America](#)

[Identify a new tree](#)

So far you have chosen:

 [tree has broad leaves](#)

(click a choice above to go back to that part of the key)

Opposite branching

(side branches, leaves, and leaf scars grow from the stem directly across from each other)

Example:



Alternate branching

(side branches, leaves, and leaf scars do not grow directly across from each other)

Example:



So far you have chosen:

 [tree has broad leaves](#)

 [opposite branching](#)

(click a choice above to go back to that part of the key)

Compound leaves

(A single leaf with numerous leaflets. Leaflets are smaller parts of leaves that often resemble leaves themselves and join together along the leaf stem. A leaf actually begins where the woody twig ends.)

Example:



Simple leaves

(The leaf stem is the same as the main vein for that leaf.)

Example:



So far you have chosen:

 [tree has broad leaves](#)

 [opposite branching](#)

 [compound leaves](#)

(click a choice above to go back to that part of the key)

9-11 leaflets, leaflets do not have stems

Example:



You have a: _

[Black Ash](#)

[\(*Fraxinus nigra*\)](#)

5-9 leaflets, leaflets have stems, smile-shaped leaf scar

Example:



You have a: _

[White Ash](#)

[\(*Fraxinus americana*\)](#)



Compound leaf.
Opposite branching.



Black Ash *Fraxinus nigra*

Learn more about the black ash in the
[Silvics of North America](#)

[Identify a new tree](#)



Photo: Scott Biggs



Opposite branching
Compound leaves



Photo: Scott Biggs

White Ash *Fraxinus americana*

Learn more about the white ash in the
[Silvics of North America](#)

[Identify a new tree](#)

So far you have chosen:

 [tree has broad leaves](#)

 [opposite branching](#)

 [simple leaves](#)

(click a choice above to go back to that part of the key)

Leaf margins smooth, 5 lobes

Example:



You have a:
[Sugar Maple](#)
(*Acer saccharum*)

Leaf margins notched, 3-5 lobes

Example:



You have a:
[Red Maple](#) (*Acer rubrum*)



** Photos:
Oregon State Univ.,
Dept. Horticulture

**



**



** Opposite branching

Sugar Maple *Acer saccharum*

Learn more about the sugar maple in the
[Silvics of North America](#)

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Photo: Dan Lineberger



Red Maple *Acer rubrum*

Learn more about red maple in the
[Silvics of North America](#)

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** Photos:
Oregon State Univ.,
Dept. Horticulture

**



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American Beech -
Fagus grandifolia

Learn more about the American beech in [Silvics of North America](#)

[Identify a new tree](#)



Balsam Fir *Abies balsamea*

Learn more about the balsam fir in the [Silvics of North America](#)

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Basswood *Tilia americana*

Learn more about the basswood in the [Silvics of North America](#)

[Identify a new tree](#)



Big Toothed Aspen -
Populus grandidentata

Learn more about the big toothed aspen in
[Silvics of North America](#)

[Identify a new tree](#)



Black Cherry *Prunus serotina*

Learn more about the black cherry in the [Silvics of North America](#)

[Identify a new tree](#)



Photo: Dan Lineberger



Photo: Oregon State Univ.,
Dept. Horticulture

Black Walnut *Juglans nigra*

Learn more about the black walnut in the [Silvics of North America](#)

[Identify a new tree](#)





Cottonwood *Populus deltoides*

Learn more about the cottonwood in the [Silvics of North America](#)

[Identify a new tree](#)



Eastern Hemlock -
Tsuga canadensis

Learn more about the eastern hemlock in [Silvics of North America](#)

[Identify a new tree](#)



Jack Pine *Pinus banksiana*

Learn more about the jack pine in the
[Silvics of North America](#)

[Identify a new tree](#)



Norway Spruce *Picea abies*

[Identify a new tree](#)



Red Oak *Quercus rubra*

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[Identify a new tree](#)



Scotch Pine *Pinus sylvestris*

Learn more about the scotch pine in the
[Silvics of North America](#)

[Identify a new tree](#)



Compound leaf.
Alternate branching.



Shagbark Hickory -

Carya ovata

Learn more about the shagbark hickory in [Silvics of North America](#)

[Identify a new tree](#)



** Photos:
Oregon State Univ.,
Dept. Horticulture

**



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Trembling (Quaking) Aspen _
Populus tremuloides

Learn more about trembling aspen in the
[Silvics of North America](#)

[Identify a new tree](#)



Photo:
Oregon State Univ.,
Dept. Horticulture



Photo: Oregon State Univ.,
Dept. Horticulture

White (Paper) Birch - ***Betula papyrifera***

Learn more about white birch in the
[Silvics of North America](#)

[Identify a new tree](#)



White Oak *Quercus alba*

Learn more about the white oak in the
[Silvics of North America](#)

[Identify a new tree](#)



Alternate branching.



Bark can be papery.



Yellow Birch -
Betula alleghaniensis

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[Silvics of North America](#)

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LEAF

The Wisconsin K-12
Forestry Education
Program

Learning, Experiences, & Activities in Forestry

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School Forests	Urban Forestry	Wildland Fire	Tree Identification	Opportunities/ Resources



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LEAF connects formal and non-formal educators in Wisconsin with quality forestry education materials. This is done through:

- Professional development for educators
- The Wisconsin K-12 Forestry Lesson Guide
- Distribution of materials from the existing forestry education community
- School forest services and consulting

LEAF is a partnership program between:

- [Wisconsin Center for Environmental Education](#) in the College of Natural Resources at the University of Wisconsin-Stevens Point
- [Wisconsin Department of Natural Resources-Division of Forestry](#)

The LEAF Program operates under a set of guiding principles:

- Wisconsin's forests can be managed sustainably for economic, ecologic, and social benefits.
- By becoming informed and active participants in decision making processes, citizens can sustain forests.
- To develop informed and active citizens, forestry education should be infused in Wisconsin's K-12 schools.

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