

WELCOME TO TREETAG, VERSION 2!

TreeTag is a mobile application for Android designed to help you document, interact with, and better care for trees in your community. It was developed for Vanier College in 2015 by a multidisciplinary team of students participating in a special, 3-week summer project with the common aim to create an educational and management tool for the College. The application was used to locate, photograph, and measure over 400 trees, which are preloaded on the database. Since then, the tree data has been verified and updated to record new plantings and losses.

The long-term objective of *TreeTag* is to maintain an active and accessible inventory of all campus trees with a trunk diameter over 2cm. The application provides a data sheet for each tree complete with photos and a series of identifying and descriptive characteristics such as species, age, size, and health status. These data sheets can be accessed using the interactive map or search tool.

The interactive map has an overlay to reflect the most recent changes to the physical environment at Vanier College. To assist with orientation, the map indicates the location of your mobile device in relation to the surrounding trees. You can access or input data from the field in real time. Tree icons on the map differ according to their planting status. Hovering over any tree icon will bring up a snippet identifying the tree species and ID number.

The data sheets for each tree include a health assessment and care recommendations, which may be completed by a tree specialist. There is also a maintenance log for college staff to record work completed or to note observations. Adding or modify information on the database requires a password, which may be requested by contacting the *TreeTag* administrator.

TreeTag, Version 2 includes several new features. It allows multiple images to be recorded for each tree in order to document its growth and to display certain characteristics or conditions in greater detail. Another new feature is the group selection tool, which will map trees by species, health status, zone or a custom selection. Version 3 (currently in development) will include a report function which will publish the data sheets and a key plan for a group selection to a pdf document.

USER FEEDBACK WELCOME

TreeTag is an information sharing initiative with the goal of promoting biodiversity at Vanier College and creating the management tools necessary to ensure the long-term health and succession of our campus trees. You are encouraged to contribute feedback. Please submit observations, corrections, or images on specific trees in the comments section of the tree data sheets – especially comments that build awareness about tree health and the many ecological services that trees provide. General comments about the *TreeTag* application may be submitted using the FEEDBACK link below.

PROJECT CREDITS

Richard Klopp, project initiator and coordinator

VERSION 1

Adrian Todorov, lead programmer

Connie Luu, programmer

Daniel Kuzev, map overlay and data collection

Moises Alvarez Paredes, programmer

Stephanie Becerra, data collection

VERSION 2

Adrian Todorov, mentor programmer

Sunny Patel, intern programmer

TREE DATA UPDATES

Scott Braithwaite, Autumn 2016

Kaila Langille, Summer 2019

This mobile application emerged from a multidisciplinary and multi-course collaboration initiated by Richard Klopp, co-teacher of the 2014 *Sustainability-in-Action* course. The initial project of developing a tree survey database was awarded a prize at the 16th edition of the intercollegiate *Délirium Durable Competition* in March 2015. Many thanks to all those students and teachers that contributed to getting the project that far, including Michel Descoteaux and Stefan Penton, the student graphic designers of the TreeTag home image.

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