Introduction

Gnarley trees is a project focused on visualization of various tree data structures. This web site contains visualizations of

- o various **balanced trees** such as AVL tree, red-black tree, B-tree, splay tree, treap, skip list, or scapegoat tree,
- o priority queues such as binary heap, leftist heap, skew heap, binomial heap, Fibonacci heap, or pairing heap,
- o union find with various heuristics (union by rank, path compression, path halving, path splitting),
- and **string data structures** such as trie or suffix tree.

We believe that these visualizations can be used very efficiently as lecture aids. We also hope they will be useful for students for self-study, or simply for exploring various concepts and satisfying curiosity.

You can use these visualizations either **online** on this site or download a **standalone application**. (The jar file can be run using the command java -jar gt.jar)

REQUIREMENTS

To run the jar file and the applets on this page, you need the Java Runtime Environment.

FEEDBACK AND BUG REPORTS

If you like our visualizations, please write us (to massage our egos). Even more importantly, write us if you have found a bug or have an idea for improvement.

e-mail: algvis@googlegroups.com

TRANSLATIONS

Gnarley trees are currently available in English and in Slovak. If you would like to contribute a translation into another language, simply download <u>this file</u>, translate it, and send it to <u>algvis@googlegroups.com</u>.

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LICENCE

