

# Pedfiddler

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## A suite of pedigree drawing programs

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Version 0.5

### Abstract

**Pedfiddler** is a suite of programs for pedigree drawing. It is based on a subset of the publicly available version of **Pedpack** (version 2.2).

## 1 Description

**Pedfiddler** programs are **index2pedc**, **list2pedc**, **pedc2ps**, **pedcsharp**, and **pfiddler**. One of the main features of **Pedfiddler** is its capability to handle icon colours; to achieve this, the original coordinates definition from **Pedpack**-2.2 was modified. Since **Pedfiddler** is not intended for pedigree analysis one of the 'fields' (inbreeding) used in the **Pedpack**-2.2, was replaced by three 'fields' that determine the RGB colouring scheme. An additional 'field' was added to hold an "editable" label or alias. This modified structure of the **Pedpack**-2.2 coordinates file is what we call the **pedc** format.

Another major feature of **Pedfiddler** is its upgraded simulated annealing algorithm to 'improve' the aesthetics of the marriage-node graph. This algorithm allows for a better control of the distribution of the nodes in the plane while minimizing the length of edges and favouring the aggregation of sibships.

## 2 See Also

*index2pedc(1)*, *list2pedc(1)*, *pedc2ps(1)*, and *pfiddler(1)*.

## 3 Version

Version: 0.5 of August 16, 2005

## 4 Acknowledgment

The core of the **Pedfiddler** suite is a modified subset of files from the publicly available version 2.2 of **Pedpack**, a pedigree analysis and plotting package developed at the University of Washington ( <http://www.stat.washington.edu> ). The original developer of **Pedpack** was Elizabeth A. Thomson. Among the later developers of **Pedpack** were Alun W. Thomas, Bill Dunlap, and Charles J. Geyer. Two programs in **Pedfiddler**, *editpedc* and *Pedfiddler*, use the GNU library **ftk** ( <http://ftk.easysw.com> ). All **Pedfiddler** programs use **getopt** from the **kpathsea** library. Development of **Pedfiddler** was supported by grants from the Canadian Genetic Diseases Network and the Mathematics of Information and Technology and Complex Systems Network (Canadian Networks of Centres of Excellence program).

## 5 Disclaimer

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