

index2pedc

—

A pedigree coordinates generator

J C. LoredO-Osti and Kenneth Morgan

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Version 0.5

Abstract

index2pedc generates a pedc file (a small modification of the pedigree coordinates file as defined in **Pedpack**) from an ASCII list file. *index2pedc* is part of the **Pedfiddler** suite of programs for pedigree drawing.

1 Synopsis

index2pedc [**options**] *inputfile*

2 Description

index2pedc generates a pedigree coordinates file from an ASCII file of pedigree indices. The format for the list file is

<id> <father> <mother> [sex] [affection_status] [label]

where <> and [] mean mandatory and optional fields, respectively. Colors for affection status are assigned and a label (or alias) is set to <id>. This label can be modified subsequently by editing the pedc file or with *pedcsharp*(1). The input file is assumed to be a valid pedigree index file, i.e., everything but the labels has to be integers with no progeny preceding preceding the parents.

3 Options

{ **-o** | **--output** } *outfile* Output file (default stdout).

{ **-s** | **--sex** } Input file includes sex.

{ **-a** | **--affection**] Input file includes affection status.

{ **-l** | **--label**] Last column of input file holds label (default label comes from id-number).

{ **-m** | **--minimize** } Minimize the square of line distances by simulated annealing (default no minimization).
 { **-I** | **--iterations** } *n* Number of iterations for annealing (default 1000).
 { **-T** | **--temperature** } *f* Annealing starting temperature (default 15.0).
 { **-C** | **--cooling** } *f* Annealing cooling factor (default 0.9).
 { **-N** | **--normal** } *r,g,b* RGB colors for icons:
 { **-A** | **--affected** } *r,g,b* $0 \leq r,g,b \leq 255$
 { **-U** | **--unknown** } *r,g,b* without spaces between numbers.
 { **-d** | **--default** } Show default values.
 { **-v** | **--version** } Show version.

4 Examples

- Suppose the list file `famx.txt` has columns for sex and affection status. To generate a pedc file with unknown phenotype in ‘blue’, and the other default options type:

```
index2pedc -as -U 0,0,255 -o famx.pedc famx.txt
```
- To generate a pedc file with minimization of the length of the edges type:

```
index2pedc -a -s -m -o famx.pedc famx.txt
```

5 See Also

editpedc(1), *list2pedc(1)*, *pedc2ps(1)*, *pedcsharp(1)*, *pedfiddler(1)*, and *pfiddler(1)*.

6 Version

Version: 0.5 of August 15, 2005

7 Acknowledgment

As part of **Pedfiddler**, *index2pedc* is based on the publicly available version of **Pedpack** (<http://www.stat.washington.edu>). The **Pedpack**-v2.2 counterpart of *index2pedc* is the program *setcoords*. Bugs and pitfalls in *index2pedc* are solely the responsibility of J C. Loredó-Osti and Kenneth Morgan.

8 Authors

J C. Loredó-Osti
Department of Human Genetics, McGill University.
`josti@bagel.epi.mcgill.ca`

and

Kenneth Morgan
Departments of Human Genetics and Medicine, McGill University
and McGill University Health Centre Research Institute, Montreal.
`ken@bagel.epi.mcgill.ca`