

# DAG program v0.12

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<http://epi.dife.de/dag>

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# DAG Program

- **Programming language: C++**
- Available as DOS command line program:  
**<http://epi.dife.de/dag>**
- Current version: v0.12 (released March 2010)
- Publication: Knüppel S, Stang A. Research Letter. Epidemiology, Volume 21, Number 1, January 2010, p.159
- The DAG Program needs at least two input files (ASCII)
  - Definition of the graph (matrix or edge statements)
  - Information about variables, if measured

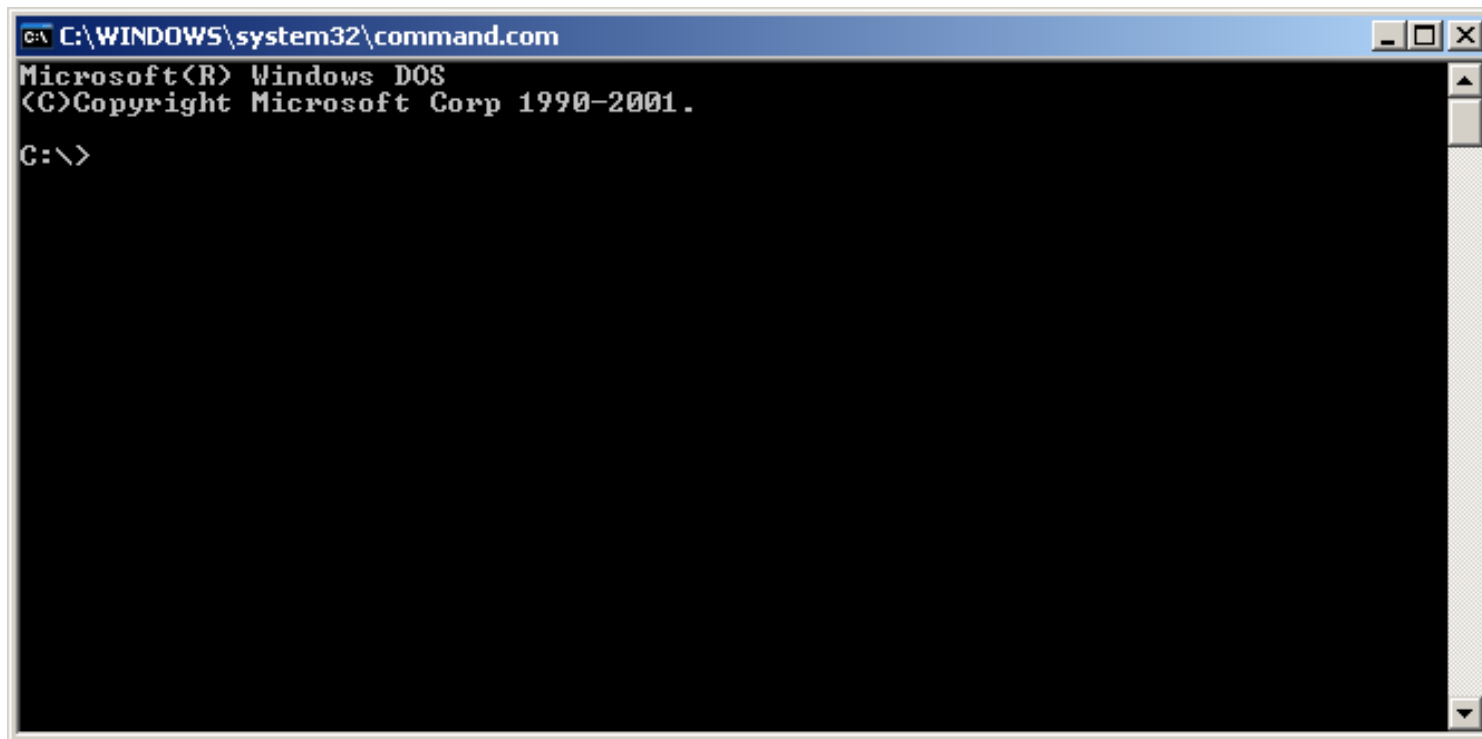
# Windows/MS-DOS notes

The Windows/MS-DOS version of DAG program is a command line program, and is **not** run by clicking on the icon with the mouse. Open a DOS windows by selecting "Command Prompt" from the start menu, or entering "command" or "cmd" in the "Run..." option of the start menu.

# Open a DOS window (MS DOS prompt)

Open a DOS window by selecting

- (1) "Command Prompt" from the start menu or
- (2) type "cmd" in the "Run..." option of the start menu.

A screenshot of a Windows DOS command prompt window. The title bar at the top reads "C:\WINDOWS\system32\command.com" and includes standard window control buttons (minimize, maximize, close). The main area of the window is black with white text. The text displayed is: "Microsoft(R) Windows DOS", "<C>Copyright Microsoft Corp 1990-2001.", and "C:\>".

```
C:\WINDOWS\system32\command.com
Microsoft(R) Windows DOS
<C>Copyright Microsoft Corp 1990-2001.
C:\>
```

# (very) short command list

Command	Description	Example
<code>cd [..]</code> <code>cd</code> <code>[drive:][path]</code>	<code>cd</code> (Change Directory) is a command used to switch directories.	<code>cd ..</code> Goes back one directory. <code>cd C:\dag</code>
<code>dir</code> <code>dir</code> <code>[drive:][path]</code>	Lists the contents of a directory.	<code>dir</code> <code>dir c:\dag</code>
<code>&gt;</code>	Saves output of DAG program in a file	<code>dag -i ex.info -m ex.txt &gt; out.txt</code>

# Example

1. Create a working directory, e.g. C:\dag, and copy the executable file 'dag.exe' in this directory.
2. Unzip and copy the example files from our web page in the working directory.
3. Open a DOS window and change to the working directory by typing a command like this `cd C:\dag`.
4. Run the DAG program

```
dag -i example1.info -m example1.txt
```

# Example

1. Create 'dag'
2. Unzip directory
3. Open command
4. Run

```
C:\ Auswählen C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\>cd C:\dag
C:\DAG>dag -i example1.info -m example1.txt
Start: Fri May 07 08:07:29 2010
-----*-----
          DAG program
          v0.12
          March 31, 2010

          Sven Knueppel
          http://epi.dife.de/dag/
-----*-----

Information file:  example1.info
Graph description: example1.txt

3 measured and 0 unmeasured variables
from information file read.

No closed loop found.

No covariates affected by the exposure.

1 front-door path(s) from E to D found.
    1:      causal          E->D

1 back-door path(s) from E to D found.
    1: non-causal unblocked E<-C->D

Summary:

    1 front-door path(s) found.
    1 back-door path(s) found.
```

- See the documentation, which can be found on our web page, for more information.
- If you have any problems, would like to report a bug or comment on the DAG program, please send an e-mail to [sven.knueppel@dife.de](mailto:sven.knueppel@dife.de).