

Tool for edition and inference in PGMs (Bayesian networks and Influence diagrams)

Software engineering methods for design, coding and testing.

Easy to maintain

Documentation: user manual, HTML pages and technical docs. Simple design with enphasis in extensibility using design patterns.

Minimize errors via systematic tests.

Configuration management (version control) with Subversion

Comparison with other tools

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Language	Matlab	C++	Python	Java	Java	Java	Java	Java	Java	Java
License	GPL	IOSL	GPL	GPL	GPL	-GPL-	-LGPL-	GPL		-LGPL
User manuals	yes	no	yes	yes	yes	yes	no	yes	yes	yes
Users list/forum	yes	no	yes	no	yes	yes	yes	yes	yes	yes
Developer manuals	no	no	no	no	no	no	no	yes	yes	yes
Developers list	yes	no	\mathbf{yes}	no	yes	yes	yes	yes	yes	yes
Source HTML docs	no	no	no	yes	no	yes	yes	yes	yes	yes
Version control	no	no	yes	no	yes	yes	yes	yes	yes	yes
Bug tracker	no	no	\mathbf{yes}	yes	yes	yes	yes	yes	no	yes
Start	1999	2003	2006	1996	2004	2000	2003	1993	1997	2004
Stopped	2007	2005	2007	2001	2004	2004	2003	_	—	_

Main topics

Java

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Carmen architecture





Variable elimination Bayesian networks – Lazy propagation Hugin propagation

Algorithms

Influence diagrams: Variable elimination

Carmen design 6

• New desing pattern for undo-redo operations in two phases • New way to define a probabilistic network with a set of constraints

Carmen codification

• Programming style: extensión of Sun standar for Java

Carmen tests

