RevRatio 1.0



User Manual

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1. Introduction

RevRatio is a tool specifically created for assisting researchers in performing systematic reviews. It allows easily adding and handling reference material from different sources, and provides a straigthforward way of including and excluding references.

RevRatio supports searching online databases for directly importing references into the program. Search capabilities can easily be expanded by adding new database plugins.

1.1 System requirements

RevRatio will run on most modern computer systems.

A Windows installer package is supplied for convenience but it should be possible to compile and run the program on most systems meeting the minimum requirements:

- Java 1.4.2 runtime environment (SDK required for compiling)
- 500 MHz processor
- 128 MB RAM
- 5 MBs of free harddisk space (depending on database size)
- internet connectivity for online database access

2. Getting started

Following the instructions in this section lets you quickly set up and start using RevRatio.

2.1 Installing RevRatio

Download the *RevRatio* package (RevRatio_1.0.0_setup.exe) and execute it. Please note that the file name may vary. You will be presented with the following dialog:



Choose "Next". A dialog showing you the license conditions of *RevRatio* will appear.

RevRatio 1.0.0 Setup	
License Agreement Please review the license terms before installing RevRatio 1.0.0.	RR
Press Page Down to see the rest of the agreement.	
[The RevRatio program is distributed under GPL Version 2. HSQLDB is distributed under it's own licences (see hypersonic_lic.txt and hsqldb_lic.txt) The google plugin uses googleapi (see googleapilicense.txt)	
GNU GENERAL PUBLIC LICENSE Version 2, June 1991	
Copyright (C) 1989, 1991 Free Software Foundation, Inc. 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA	
	~
If you accept the terms of the agreement, click I Agree to continue. You must agreement to install RevRatio 1.0.0.	accept the
y Duckpond	
< Back I Agree	Cancel

Read and understand the license agreement and choose "I Agree" to proceed.

R RevRatio 1.0.0 Setup	
Choose Install Location Choose the folder in which to install RevRatio 1.0.0.	RR
Setup will install RevRatio 1.0.0 in the following folder. To install in a different fold Browse and select another folder. Click Install to start the installation.	der, click
Destination Folder C:\Program Files\RevRatio Brow	wse
Space required: 1.7MB Space available: 48.8GB	
by Duckpond	Cancel

Select a folder for your *RevRatio* program files. Please note that you must have write access to the folder. Choose "**Install**".

If installation succeeds you will be presented with the following dialog:



Choose "Finish" to exit setup and launch RevRatio.

2.1.1 Installing additional plugins (optional)

If you have any additional database plugins you must manually place their class files in the **plugins** -subdirectory in the installation folder.

No other configuration is required. Any new plugin will be automatically loaded on startup.

2.2 Starting RevRatio

You can start the program by double-clicking the *RevRatio* desktop icon.



RevRatio should start up displaying an empty workspace.



2.3 Creating a review

To create a new review choose "File -> New".



Enter a title for your review.

R _R Create new review		
Enter a name for review		
My first review		
	Create Cancel	

Choose "Create".

The *RevRatio* workspace should open up displaying your newly created review.

2.4 The RevRatio workspace

The *RevRatio* workspace is divided into two main portions, the *protocol* view for defining searches and entering source material and the *findings* view for managing all entered references.

You may switch between these sections by choosing the appropriate tab as shown below.

^{IR} R RevRatio 1.0.0 - My first revi	ew	
<u>File Edit Group Reference He</u>	lp	
Protocol Findings		
Introduction Searches - Inspec - Google Manual References - Journal Article - Conference Paper - Book - Web Page	Title My first review Description	

The status bar at the bottom of the window shows the current state of *RevRatio* and indicates running unfinished searches.

2.4.1 The protocol view

The protocol view is split into two halves. You may choose actions by clicking on the appropriate section in the left-hand panel.

Introduction

This section lets you set the title of your review and enter some descriptive background information on the review you are conducting.

Searches

This sections holds all supported online databases. You may extend the list by adding appropriate search plugins.

Manual references

Any systematic review will include a diverse set of source material. This section allows manually adding references of different type.

2.4.2 The findings view

The findings view is also split into two main halves.

RevRatio 1.0.0 - My first review				
<u>File E</u> dit <u>G</u> roup <u>R</u> eference <u>H</u> elp				
Protocol Findings				
Groups [All]		Show: 🗹 Included 🛛 🗹 Excluded	I 🗹 Unset	
6 11	Author	Title	Source	Status
		ABC.com: Boston Legal - Sundays 10/9c	Google	
	-	ABC.com: Boston Legal - Sundays 10/9c	Google	
	1	Boston Legal quotes: Mostly Denny	Google	
		Boston Legal: Catch and Release - TV	Google	
	1	COMMENT ON DENNY CRANE - FEB	Google	
		I'm Denny Crane : CafePress.com	Google	
		Memorable Denny Crane Quotes (For	Google	
		MIND MELD WITH DENNY CRANE -	Google	
		Vessel of Honour: Denny Crane,	Google	
		William Shatner as Denny Crane	Google	
	Preview			Hide
	Comments		Abstract	
	Add New	Add Existing Edit Selected Delete Selected	URL:	

The left-hand panel allows browsing through different reference groups. *RevRatio* supports creating a tree-like structure of user-defined groups for flexible classification and management of all references.

The right-hand panel holds a list of all references belonging to the currently selected group. There is also an optional preview pane, showing key reference properties.

3. Using RevRatio

3.1 Defining the review protocol

The review protocol is defined in the protocol view. Here you may enter descriptive background information, define online database searches and enter references to other source material.

3.1.1 Introduction

This section lets you rename the title of your review and enter some descriptive background information on the review you are conducting.

R RevRatio 1.0.0 · My first review		
Eile Edit Group Reference Help		
Protocol Findings		
Introduction	Title	
Searches	My first review	
Inspec	Description	
Manual References - Journal Article - Conference Paper - Book - Web Page	i mis renew will concentrate on studying existing review managers (

3.1.2 Searching online databases

To conduct a search, choose the appropriate database in the left-hand panel and enter your search criteria in the right-hand panel. Click "**Add**".

R _R RevRatio 1.0.0 - My first rev	iew	
File Edit Group Reference E Protocol Findings Introduction Searches Inspec	Google	
Google Manual References Journal Article Conference Paper Book Web Page	Search phrase: systematic review Max results: 10	
	Searches	<u>*</u>
	Edit Delete	

Note that online databases offer different features and some searches may provide you with more advanced search modes. Please refer to the corresponding plugin documentation.

Also, some databases may require you to configure them with a username and password or a license key. You will be prompted for any required information when the search is used for the first time.

3.1.2 Adding manual references

Manual references may be added by choosing the appropriate reference type in the left-hand panel. Enter key information in the "**Required info**" tab and click "**Add**". Optionally, you may supply an abstract.

RR RevRatio 1.0.0 - My first rev	iew	
<u>File Edit G</u> roup <u>R</u> eference <u>H</u>	elp	
Protocol Findings		
Introduction Searches	Book	
Inspec	Required info Abstract	
Google	Title: Just for fun	
Manual References	Author: Torvalds, Diamond	
- Journal Article	Year: 2001	
- Conference Paper	ISBN: 951-50-1198-1	
- Web Page	Publisher: Otava	
	Location	
	Add	
	Searches	
		<u></u>
		-
	Edit Delete	

Please note that different fields will be available depending on the reference type.

3.2 Managing references

Database search results and manual references can be viewed and evaluated in the "**Findings**" view by choosing the corresponding tab.

Protocol Findings	Teth				
Groups [All] All		Show: 🗹 Included 🔽 Exclu	ded 🗹 Unset		
Terror Call	Author	Title	Source	Status	
		RevRatio	Google		
		Systematic reviews	Google		
		Systematic reviews on pain topics	Google		
		Systematic Reviews: Synthesis of Be	st Google		
		Camelot - All headlines in the same si	te Google		
		CRD Report 4: Undertaking systematic	c Google		
		CRD: Water fluoridation review	Google		
		http://www.update-software.com/clibi	ng Google		
		japan.linux.com DDDDDDDSCODGPL	🗆 Google		
		Locating and Appraising Systematic	Google		
		newsnow.de - SourceForge.net New	Google		
		RatioBGPlots.html	Google		
		SourceForge.net Foundries	Google		
		SourceForge.net: Project Filelist	Google		_
		SourceForge.net: Project Info - RevRa	tio Google		
	Preview				Hide
	Comments		Abstract		
	Add New	Add Existing	URL:		

You can view the content of a reference by double-clicking it or by right-clicking and choosing "**Properties**".

3.2.1 Including and excluding references

If you want to mark a reference for inclusion to or exclusion from the review, right-click the reference, choose "**Set Status**" and select the status you wish to set. Your selection should now be visible in the "**Status**" column for your selected reference.

Groups [All]		Show: 🗹 Included 🔽 Exclude	ed 📝 Unset		
All .	Author	Title	Source	Status	-
		Revman And Duvet	Google		
		RevMan Documentation	Google		
		Revman Home Page	1-	1	
		RevMan Info Page	Remove		
		RevRatio	Come		
		Systematic reviews	Dente		
		Systematic reviews on pain topics	Paste		
		Systematic Reviews: Synthesis of Bes	Comment		
		Buy Revman Posh NOW At Auction!	Sot Statue	Includo	
		Buy Posh By Revman NOW At Auction!	set status	Include	
		Camelot - All headlines in the same sit	Refresh	Exclude	
		Cochrane IMS - RevMan	Properties	Unset	
		Cochrane IMS - Downloading RevMan	Google	1000	
		CRD Report 4: Undertaking systematic	Google		
		CRD: Water fluoridation review	Google		
	Preview				Hide
	Comments		Abstract		
	Add Nevy.	Add Existing	Revman sorry, bu and your doesn't ap To take f	Industries In t this site uses browser ppear to supp ull advantage	c. We'r s Fram ort ther

3.2.2 Adding comments to references

You can easily add your comments to a reference by right-clicking it and choosing "**Comment**". Enter your text in the empty dialog and choose "**Save**".

Groups [All]		Show:	🗹 Included 🛛 🗹	Exclude	d 📝 Unset		
11	Author	Title			Source	Status	_
		Revman And Du	vet	1	Google		
		RevMan Docum	entation		Google		
		Revman Home I	Dage	1	Google	Excluded	_
		RevMan Info Pa	ge	18	Google	11	_
		RevRatio			Google		
		Systematic revi	Remove		Google		
		Systematic revi	Com	S	Google		
		Systematic Rev	CONY	f Best	Google		
		Buy Revman Po	Paste)n!	Google		
		Buy Posh By Re	Comment	ction!	Google		
		Camelot - All he	Sof Statue	ne site	Google		
		Cochrane IMS -	Set Status +	1	Google		
		Cochrane IMS -	Refresh	Man	Google		_
		CRD Report 4: L	Properties	matic	Google		
		CRD: Water flud	nadionrevew		Google		
	Preview						Hi
	Comments				Abstract		
					RevRati under th March 2 Project 1 SourceF	io will be released e GPL license dur 1005. kindly hosted by 'orge.net Logo.	inį

Your comment should now be visible in the preview pane.

It is possible to add several comments to any one reference. Editing existing comments in the preview pane is possible by choosing the comment and clicking "**Edit selected**".

3.2.3 Managing the reference list

The reference list displays four key fields, namely "**Author**", "**Title**", reference "**Source**" and inclusion "**Status**". The list can be sorted by any one of these fields by clicking the corresponding column header.

By default, all references are displayed. By deselecting appropriate checkboxes above the list, it is possible to view for example only such references which are already marked for inclusion in the review.

3.2.4 The preview pane

The preview pane provides easy access to certain key fields of a reference. All comments are listed and the abstract as well as the URL of a document is displayed.

You may disable the preview pane and gain additional space for the reference list by clicking the **"Hide**" button.

3.2.5 Organizing references into groups

A powerful feature of *RevRatio* is allowing the user to organize references into groups. This simplifies managing and sorting out important references.

3.2.5.1 Creating groups

To create a new group, right-click the group under which you want to create it and select "**New Group..**". Enter a name for your group and choose "**Create**".

Eile	Edit Group Referen
Pr	otocol Findings
Gro	ups [All]
All	New group
	Rename group
	Delete group
	Paste
	Comment
	Refresh

The new group will be created as a subfolder to the permanent group "**All**", which always holds all references and can't be deleted.

It is quite possible to add several subfolders, creating a multi-level hierarchy of reference groups. Also, descriptive comments can be added.



3.2.5.2 Adding references to groups

When you want to assign a reference to a particular group, right-click the reference and choose "**Copy**".

RevRatio 1.0.0 - My first review	y.				
Eile <u>E</u> dit <u>G</u> roup <u>R</u> eference <u>H</u> elp Protocol <mark>Findings</mark>					() to age ()
Groups [All]	Sh	ow: 🗹 Included	Exclude	d 🗹 Unset	
🛶 My reference group	Author Title			Source	Status
	Reyman A	nd Duvet	1	Gooale	
	RevMan D	ocumentation		Google	
	Revman H	ome Page		Google	Excluded
	RevMan In	fo Page	ļ,	Google	
	RevRatio			Google	
	Systemati	c reviews	Remove	oogle	
	Systemati	c reviews on p	0	oogle	
	Systemati	c Reviews: Syr	Coby	oogle	
	Buy Revma	an Posh NOW	Paste	oogle	
	Buy Posh I	By Revman NO	Commont	oogle	
	Camelot -	All headlines ir	comment	oogle	
	Cochrane	IMS - RevMan	Set Status	oogle	
	Cochrane	IMS - Downloa	Refresh	oogle	
	CRD Repor	rt 4: Undertakir	Pronerties	oogle	
	CRD: Wate	er fluoridation r	new	oogle	
	Preview				Hide
	Comments			Abstract	
	This will be the best reviet T	Fhis will be the be nanager yet. Edit Selected	st review	RevRat under th March 2 Project 1 SourceF	io will be released he GPL license during 2005. kindly hosted by forge.net Logo.

Then right-click the destination group and choose "**Paste**". This will add the reference to that particular group, but won't delete it from any other groups it may be part of.

Several references can be selected simultaneously and keyboard shortcuts are supported.

3.2.5.3 Removing references

You may remove a reference from a particular group by right-clicking the reference in that group and choosing "**Remove**". This only removes the reference from that particular group.

Destand Charles						
Protocol Findings						
Groups [My reference group]	Show: 🗹 Included 🗹 Excluded 🗹 Unset					
♦ My reference group My subgroup	Author	Title		9	Source	Status
		RevRatio	Remove		Google	
			Copy Paste			
			Comment Set Status A Refresh	-5		
			Propercies	1		
			Propercies]		
	Preview		Properties	_], 		Hid
	Preview Comments		Properties		Abstract	Hid
	Preview Comments This will be th	1e best reviet	This will be the best reviemanager yet.	BM	Abstract RevRatie under the March 20 Project k SourceFo	• will be released GPL license during 105. indly hosted by rrge.net Logo.

Please note that it is not possible to remove a reference from the **All** -group.

3.3 Settings

You may define some settings of *RevRatio* by choosing **Edit -> Preferences**.



3.3.1 Client

Public server

By checking the box for "**Allow incoming connections**" it is possible to connect to the local server and database from a remote location.

Note: Multiple concurrent users are not supported.

Preferred web browser

Here you may provide the full path to any program you want to handle the URLs in *RevRatio*. **Note:** This setting has no affect in Microsoft Windows.

3.3.2 Local server

Settings on the "Local server" tab affect the *RevRatio* server and database you are running locally.

Note: Currently external databases are not officially supported. You are advised to use the included database and default settings.

3.3.3 Proxy settings

You may enter a host name and port for a web proxy, which *RevRatio* can use for accessing online databases.

3.4 Backing up the database

The internal database stores all your reviews and their data in the **db** folder in your home profile.

To backup the database:

1. Exit RevRatio

2. Make a copy of the **db** folder in your profile's **Application Data/RevRatio/** folder.

Note: The **Application Data** folder is normally hidden, so you will have to enable showing hidden files and folders.

To restore the backup:

- 1. Exit RevRatio
- 2. Rename any existing **db** folder in your profile's **Application Data/RevRatio/** folder to **db.old**.
- 3. Copy the backed up **db** folder into your profile's **Application Data/RevRatio/** folder.

4. Troubleshooting

1. *RevRatio* doesn't start.

Check that java(.exe) and javaw(.exe) are in your current command path (\$PATH).

2. A search plugin tells me I don't have access. What does it mean?

Some online databases only lets users do searches from certain IP addresses. If the server IP isn't allowed, you can use a proxy server (if its IP address is allowed).

3. I can't enter the '~' sign in a dialog or textfield.

This is apparently an unfortunate bug on some platforms in the Java swing library used in *RevRatio*. You can, however, enter the tilde sign by first pressing the key *without* Alt-Gr and then *with* it, as you would normally. This produces both the $\ddot{}$ -character and the \sim -character.

5. Licensing

5.1 General information

RevRatio and most of the included plugins are distributed under the General Public License version 2. The google plugin uses googleapi, for which the license conditions are linked below. The google plugin is also subject to an exception to the GPL license.

Internal database support is provided by hsqldb.

5.2 Revratio license

Please visit the following web address for details of the *RevRatio* license: http://revratio.sourceforge.net/gpl.txt

5.3 Googleapi license

Please visit the following web address for details of the googleapi license: http://revratio.sourceforge.net/googleapi.txt

5.4 Hsqldb license

Please visit the following web address for details of the Hsqldb license: http://revratio.sourceforge.net/hsqldb.txt

6. Credits

RevRatio was developed in 2004-2005 during a software project course at the *Helsinki University of Technology* by Andreas Finne, Markus Frilund, Thomas Gammals, Erik Ihrcke, Mika Lehtinen, Kristian Selén and Michael Wikberg for Pietari Laurila.