

Wonsole

The new web console for power users

User Manual



CUSTOMER DRIVEN PROJECT

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Contents

1	Introduction	4
2	Basics	5
3	Tutorial	7
3.1	Database	7
3.2	Log	9
3.3	Print	9
3.4	View	10
3.5	JavaScript evaluatuion	10
3.6	Quiet	11
3.7	Navigation in list of documents	13
3.8	Transactions: Commit and Rollback	16
3.9	Operating with objects: Add and Remove	18
4	Appendices	20
4.1	Command reference	20

List of Figures

2.1	Main screen	6
3.1	Database open	8
3.2	Database switch	8
3.3	Print	10
3.4	Javascript integration	11
3.5	Quiet mode on	12
3.6	Quiet mode off	12
3.7	Docs array	14
3.8	Docs indexing	14
3.9	Document opening and switching	15
3.10	Doc object	15
3.11	Modification of doc	16
3.12	Commit	17
3.13	Rollback	17
3.14	Add	19
3.15	Add and modify	19

Chapter 1

Introduction

This document describes how to use the Wonsole application. It contains a user tutorial as well as command refence.

Chapter 2

Basics

User interface for wonsole is minimal a simple, so that the functionality gets presented in a clear way. If you see the main screen in the picture [2.1](#), on the left hand side, there is a GUI - Graphical User Interface - this is where data get presented as graphics. On the right hand side, there is a console window. This is a place where user can input the commands and send the commands to the system by pressing enter.

By default the list of available databases is displayed in GUI and command prompt in console.

authors
books

```
wonsole2>
```

Figure 2.1: Main screen

Chapter 3

Tutorial

3.1 Database

The most basic command in Wonsole is the command to open, or switch database. It has this format:

```
db DATABASE
```

Where DATABASE is the name of the database to open. Databases are listed in GUI and they can be opened by clicking at the name too.

After issuing the command, the database contents are displayed in GUI, see picture [3.1](#). Wonsole uses document oriented database, so it is list of documents indexed by numbers. From each document the title attribute is displayed as preview.

Same command can be used to switch the database anywhere in the workflow as in picture [3.2](#).

Note: All uncommitted changes are lost when switching the database.

```
0: title:"Romeo and Juliet"  
1: title:"Julius Caesar"  
2: title:"Hamlet"  
3: title:"Macbeth"  
4: title:"A Doll's House"  
5: title:"Peer Gynt"
```

```
wonsole2> db books  
wonsole2> |
```

Figure 3.1: Database open

```
0: title:"Henrik Ibsen"  
1: title:"William Shakespeare"
```

```
wonsole2> db books  
wonsole2> db authors  
wonsole2>
```

Figure 3.2: Database switch

3.2 Log

Note: Developers only.

3.3 Print

Command print is available to display data in plaintext instead of using GUI. It's syntax is very simple - it has one attribute: variable or data to print.

```
print DATA
```

Command loads the data, converts it into text and prints in the console as seen in picture [3.3](#).

```
authors
books
```

```
wonsole2> print 'Hello world!'
"Hello world!"
wonsole2>
```

Figure 3.3: Print

3.4 View

Oposite of the print command there is view. It displays the complex variable in the GUI.

```
view VARIABLE
```

3.5 JavaScript evaluatuion

Wonsole includes complete JavaScript language to the command set. If user issues acommand, that is not recognized as the Wonsole command, this input gets evaluated as JavaScript. You can for example issue a helper command, that does some required functionality not supported by Wonsole and than continue using default Wonsole commands, JavaScript language is 100

```
var new = "New variable" //Javascript
print variable
"New variable"
```

This is an example of creating a new JavaScript variable and using it in simple Wonsole command, demonstration on picture [3.4](#).

Note: This is advanced functionality. JavaScript language is very complex and it is the user full responsibility to use it in a safe, suitable way.

```
authors
books
```

```
wonsole2> var variable = "New variable"
wonsole2> print variable
"New variable"
wonsole2>
```

Figure 3.4: Javascript integration

3.6 Quiet

When Wonsole displays a list of documents saved in the database (see command `db`) by default it uses quiet mode. In quiet mode, it displays only object index and value of the title attribute as a object identification as you can see in picture [3.5](#).

```
quiet
```

You can toggle preview mode by using command `quiet`. When toggled off, all attributes of the object are displayed - but only the simple data types. If the attribute is complex, the `Object` keyword is displayed instead, see picture [3.6](#).

```
0: title:"Romeo and Juliet"  
1: title:"Julius Caesar"  
2: title:"Hamlet"  
3: title:"Macbeth"  
4: title:"A Doll's House"  
5: title:"Peer Gynt"
```

```
wonsole2> db books  
wonsole2>
```

Figure 3.5: Quiet mode on

```
0: title:"Romeo and Juliet",  
  price:100,  
  language:"en",  
  tags:Object,  
  stock:5  
1: title:"Julius Caesar",  
  price:100,  
  language:"en",  
  tags:Object,  
  stock:5  
2: title:"Hamlet",  
  price:170,  
  language:"en",  
  tags:Object,  
  stock:7  
3: title:"Macbeth",
```

```
wonsole2> db books  
wonsole2> quiet  
wonsole2>
```

Figure 3.6: Quiet mode off

3.7 Navigation in list of documents

```

0: title:"Romeo and Juliet"
1: title:"Julius Caesar"
2: title:"Hamlet"
3: title:"Macbeth"
4: title:"A Doll's House"
5: title:"Peer Gynt"

```

```

wonsole2> db books
wonsole2> print docs
[{"_id":"0b432ce4fb079967bbe5320f33003c50","_rev":"19-4f3cffa172aca6b413c39865c838bf9c","title":"Romeo and Juliet","price":100,"language":"en","tags":["tragedy","pre1800","play"],"stock":5}, {"_id":"0b432ce4fb079967bbe5320f33003fa3","_rev":"19-c55a2b1dfffdeb8426a2fe1079bb06b3c","title":"Julius Caesar","price":100,"language":"en","tags":["tragedy","pre1800","play"],"stock":5}, {"_id":"0b432ce4fb079967bbe5320f330049a5","_rev":"17-f964f928dafca2802195fc2868c3611","title":"Hamlet","price":100,"language":"en","tags":["tragedy","pre1800","play"],"stock":7}, {"_id":"0b432ce4fb079967bbe5320f330055c0","_rev":"17-de1c60db46d267b3538c4eac5e33c8e5","title":"Macbeth","price":100,"language":"en","tags":["tragedy","pre1800","play","onsale"],"stock":0}, {"_id":"0b432ce4fb079967bbe5320f33006ce0","_rev":"12-6086f6f8fcff5337083a78839a6fe957","title":"A Doll's House","year":1879,"tags":["boring","toolong","post1800","nora"],"language":"no","price":100}, {"_id":"0b432ce4fb079967bbe5320f33006e34","_rev":"11-b05670b2552056cdf5eef59afd38d8dd","title":"Peer Gynt","year":1876,"tags":["mediumboring","post1800"],"language":"no","price":299,"stock":10}]
wonsole2> |

```

Figure 3.7: Docs array

```

0: title:"Romeo and Juliet"
1: title:"Julius Caesar"
2: title:"Hamlet"
3: title:"Macbeth"
4: title:"A Doll's House"
5: title:"Peer Gynt"

```

```

wonsole2> db books
wonsole2> print docs
[{"_id":"0b432ce4fb079967bbe5320f33003c50","_rev":"19-4f3cffa172aca6b413c39865c838bf9c","title":"Romeo and Juliet","price":100,"language":"en","tags":["tragedy","pre1800","play"],"stock":5}, {"_id":"0b432ce4fb079967bbe5320f33003fa3","_rev":"19-c55a2b1dfffdeb8426a2fe1079bb06b3c","title":"Julius Caesar","price":100,"language":"en","tags":["tragedy","pre1800","play"],"stock":5}, {"_id":"0b432ce4fb079967bbe5320f330049a5","_rev":"17-f964f928dafca2802195fc2868c3611","title":"Hamlet","price":100,"language":"en","tags":["tragedy","pre1800","play"],"stock":7}, {"_id":"0b432ce4fb079967bbe5320f330055c0","_rev":"17-de1c60db46d267b3538c4eac5e33c8e5","title":"Macbeth","price":100,"language":"en","tags":["tragedy","pre1800","play","onsale"],"stock":0}, {"_id":"0b432ce4fb079967bbe5320f33006ce0","_rev":"12-6086f6f8fcff5337083a78839a6fe957","title":"A Doll's House","year":1879,"tags":["boring","toolong","post1800","nora"],"language":"no","price":100}, {"_id":"0b432ce4fb079967bbe5320f33006e34","_rev":"11-b05670b2552056cdf5eef59afd38d8dd","title":"Peer Gynt","year":1876,"tags":["mediumboring","post1800"],"language":"no","price":299,"stock":10}]
wonsole2> print docs[0]
{"_id":"0b432ce4fb079967bbe5320f33003c50","_rev":"19-4f3cffa172aca6b413c39865c838bf9c","title":"Romeo and Juliet","price":100,"language":"en","tags":["tragedy","pre1800","play"],"stock":5}
wonsole2>

```

Figure 3.8: Docs indexing

Object

title: Julius Caesar

price: 100

language: en

tags:

0: tragedy

1: pre1800

2: play

stock: 5

```
wonsole2> db books
wonsole2> doc 0
wonsole2> doc 1
wonsole2> |
```

Figure 3.9: Document opening and switching

Object

title: Julius Caesar

price: 100

language: en

tags:

0: tragedy

1: pre1800

2: play

stock: 5

```
wonsole2> db books
wonsole2> doc 0
wonsole2> doc 1
wonsole2> print doc
{"_id":"0b432ce4fb079967bbe5320f33003fa3","_rev":"19-
c55a2b1dfffdeb8426a2fe1079bb06b3c","title":"Julius
Caesar","price":100,"language":"en","tags":
["tragedy","pre1800","play"],"stock":5}
wonsole2>
```

Figure 3.10: Doc object

Object

```
title: Romeo and Juliet
price: 100
language: en
tags:
  0: tragedy
  1: pre1800
  2: play
stock: 4
available: true
```

```
wonsole2> db books
wonsole2> doc 0
wonsole2> doc.stock = 4
wonsole2> doc.available = true
wonsole2> |
```

Figure 3.11: Modification of doc

3.8 Transactions: Commit and Rollback

Object

```
title: Romeo and Juliet
price: 100
language: en
tags:
  0: tragedy
  1: pre1800
  2: play
stock: 4
available: true
```

```
wonsole2> db books
wonsole2> doc 0
wonsole2> doc.stock = 4
wonsole2> doc.available = true
wonsole2> commit
```

Figure 3.12: Commit

Object

```
title: Romeo and Juliet
price: 100
language: en
tags:
  0: tragedy
  1: pre1800
  2: play
stock: 5
```

```
wonsole2> db books
wonsole2> doc 0
wonsole2> doc.stock = 4
wonsole2> doc.available = true
wonsole2> rollback
wonsole2> doc 0
wonsole2> |
```

Figure 3.13: Rollback

3.9 Operating with objects: Add and Remove

```
0: title:"Romeo and Juliet"  
1: title:"Julius Caesar"  
2: title:"Hamlet"  
3: title:"Macbeth"  
4: title:"A Doll's House"  
5: title:"Peer Gynt"  
6:  
7: title:"New book"
```

```
wonsole2> db books  
wonsole2> add {}  
wonsole2> add {"title":"New book"}  
wonsole2>
```

Figure 3.14: Add

Object

```
title: New book  
note: Not yet available
```

```
wonsole2> db books  
wonsole2> add {"title" : "New book"}  
wonsole2> doc 6  
wonsole2> doc.note = "Not yet available"  
wonsole2>
```

Figure 3.15: Add and modify

Chapter 4

Appendices

4.1 Command reference

command	description	example
db DATABASE	opens database DATABASE	db books
docs	switches view to documents	docs
doc INDEX	opens document at INDEX	doc 0
commit	commits the changes to database	commit
rollback	rollbacks the changes	rollback
refresh	refreshes the UI	refresh
clear	clears the console	clear
print	VARIABLE prints the variable VARIABLE	print docs
quiet	toggles list verbosity, default: on	quiet
log	toggles log visibility, default: off	log
remove INDEX	removes object at index INDEX	remove 0
remove JSON	removes object specified by JSON	remove {"id":1231232}
add JSON	adds object specified by JSON	add {"title" : "New book"}
seteach ARRAY ATTRIBUTE VALUE	sets (creates if necessary) ATTRIBUTE in object in ARRAY to VALUE	seteach docs author "Unknown"
foreach ARRAY CODE	executes the CODE for each item of ARRAY	foreach docs price=price*10
filter ARRAY ATTRIBUTE VALUE	filters the ARRAY with VALUE of ATTRIBUTE	filter docs title Report
script ARRAY	executes the ARRAY of commands specified by string	script ["clear", "db books"]

Table 4.1: Command reference