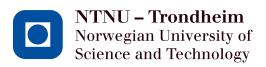
# Wonsole The new web console for power users User Manual





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# Introduction

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

## Basics

User interface for wonsole is minimal a simple, so that the funcionality 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

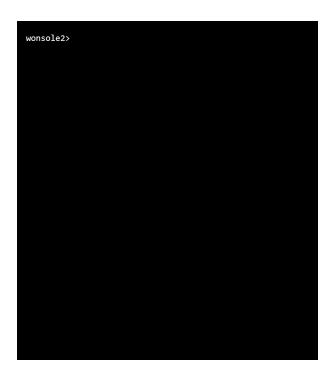


Figure 2.1: Main screen

# **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"
```

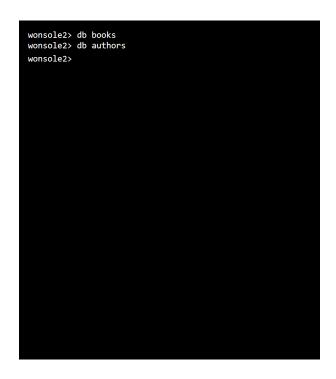


Figure 3.2: Database switch

#### 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 ssen in picture 3.3.

authors books



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



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 atribute 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 Navigtion 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-
c55a2b1dffdeb8426a2fe1079bb06b3c","title":"Julius
Caesar","price":100,"language":"en","tags":
["tragedy","pre1800","play"],"stock":5},
{"_id":"0b432ce4fb079967bbe5320f330049a5","_rev":"17-
f964f928dcafca2802195fc2868c3611","title":"Hamlet","price":1
["tragedy","pre1800","play"],"stock":7},
{"_id":"0b432ce4fb079967bbe5320f330049a5","_rev":"17-
de1c60db46d267b3538c4eac5e33c8e5","title":"Macbeth","price":
["tragedy","pre1800","play","onsale"],"stock":0},
{"_id":"0b432ce4fb079967bbe5320f33006ce0","_rev":"12-
6086f6f8fcfff537083a78839a6fe957","title":"A Doll's
House","year":1879,"tags":
["boring","toolong","post1800","nora"],"language":"no","price
{"_id":"0b432ce4fb079967bbe5320f33006e34","_rev":"11-
b05670b2552056cdf5eef59afd38d8dd","title":"Peer
Gynt","year":1876,"tags":
["mediumboring","post1800"],"language":"no","price":299,"sto
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-
c55a2b1dffdeb8426a2fe1079bb06b3c","title":"Julius
Caesar","price":100,"language":"en","tags":
["tragedy","pre1800","play"],"stock":5},
{"_id":"0b432ce4fb079967bbe5320f330049a5","_rev":"17-
f964f928dcafca2802195fc2868c3611","title":"Hamlet","price":1
["tragedy","pre1800","play"],"stock":7},
{"_id":"0b432ce4fb079967bbe5320f330055c0","_rev":"17-
de1c60db46d267b3538c4eac5e33c8e5","title":"Macbeth","price":
["tragedy","pre1800","play"],"onsale"],"stock":0},
{"_id":"0b432ce4fb079967bbe5320f330055c0","_rev":"12-
60866f6f8fcff5a37083a78839a6fe957","title":"A Doll's
House","year":1879,"tags":
["boring","toolong","post1800","nora"],"language":"no","price
{"_id":"0b432ce4fb079967bbe5320f33006e34","_rev":"11-
b0567602552056cdf5eef59afd38d8dd","title":"Peer
Gynt","year":1876,"tags":
["mediumboring","post1800"],"language":"no","price":299,"stoc
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":"ob432ce4fb079967bbe5320f33003fa3","_rev":"19-
c55a2b1dffdeb8426a2fe1079bb06b3c","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



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

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> dd {}
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

# Appendices

#### 4.1 Command reference

command	description	example
db DATABASE	opens database DATABASE	db books
docs	switches view to docu-	docs
	ments	
doc INDEX	opens document at IN- DEX	doc 0
commit	commits the changes to	commit
	database	
rollback	rollbacks the changes	rollback
refresh	refreshes the UI	refresh
clear	clears the console	clear
print	VARIABLE prints the	print docs
•	variable VARIABLE	
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