## Wonsole The new web console for power users User Manual





CUSTOMER DRIVEN PROJECT

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## 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 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.

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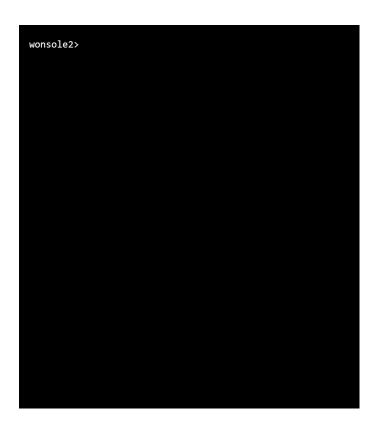


Figure 2.1: Main screen

## Chapter 3

## **Tutorial**

### 3.1 Database: db

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"

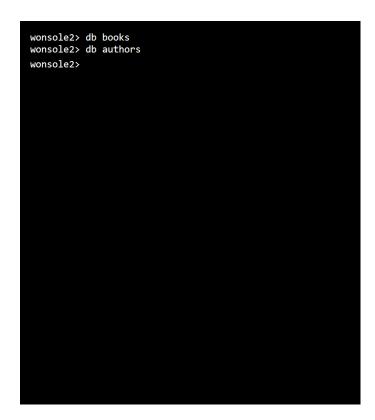


Figure 3.2: Database switch

## 3.2 Presentation: print and view

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

view VARIABLE

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Figure 3.3: Print

### 3.3 JavaScript integration

Wonsole includes complete JavaScript language to the command set. If user issues a command, 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.

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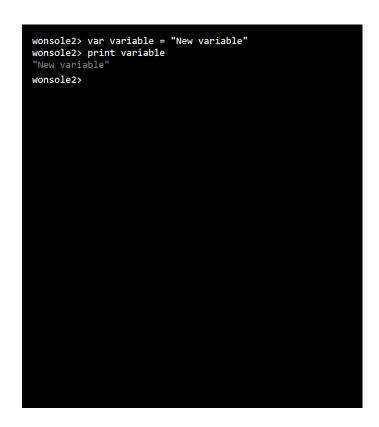


Figure 3.4: Javascript integration

### 3.4 Display: 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.

#### ${\tt quiet}$

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

### 3.5 Documents: docs and doc

After opening the database, list of documents is loaded. Is is stored in docs variable for you to work with. This variable is an array, so you can index it and get a single document object as seen in picture 3.7.

db books docs

Documents displayed in the document list mode are indexed using numbers. You can use these numbers together with doc command to open a single document. This command can be also used to switch between documents, you just have to issue it with different index. The opened document is stored inside a doc variable as demonstrated in picture 3.8.

To change the document, use a simple assignment command. This way you can modify the object freely, you can also add a new attribute. Example is in the picture 3.9

```
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":"0b432ce4fb079967bbe5320f33006ce0","_rev":"12-
6086f6f8fcff5337083a7083a708320f33006ce0","_rev":"12-
6086f6f8fcff5337083a7083a7083e7;"title":"A Doll's
House","year":1879,"tags":
["boring","toolong","post1800","nora"],"language":"no","price
{"_id":"0b432ce4fb079967bbe5320f33006c34","_rev":"11-
b05670b2552056cdf5eef59afd38d8dd","title":"Peer
Gynt","year":1876,"tags":
["mediumboring","post1800"],"language":"no","price":299,"stock
wonsole2> print docs[0]
{"_id":"0b432ce4fb079967bbe5320f33003c50","_rev":"19-
4f3cffa172aca6b413c39865c838bf9c","title":"Romeo and
Juliet","price":100,"language":"en","tags":
["tragedy","pre1800","play"],"stock":5}
wonsole2>
wonsole2>
```

Figure 3.7: List of documents

#### **Object**

```
title: Julius Caesar

price: 100

language: en
  tags:
    0: tragedy
    1: pre1800
    2: play

stock: 5
```

```
wonsole2> db books
wonsole2> doc 0
wonsole2> print doc
{"_id":"0b432ce4fb079967bbe5320f33003fa3","_rev":"19-
c55a2b1dffdeb8426a2fe1079bb06b3c","title":"Julius
Caesar","price":100,"language":"en","tags":
["tragedy","pre1800","play"],"stock":5}
wonsole2>
```

Figure 3.8: Doc object

#### **Object**

```
title: Romeo and Juliet

price: 100

language: en

tags:
    0: tragedy
    1: pre1800
    2: play

stock: 4

available: true
```



Figure 3.9: Modification of doc

#### 3.6 Transactions: Commit and Rollback

All changes you perform on objects are local, so at any point during the modification process, transaction, you have a option to save all the changes to database using command commit or to throw away all local changes and load back the values from database with command rollback. This functionality can be used as an undo command, it is up to you, how often you commit the changes.

### 3.7 Objects: Add and Remove

To add a new object, use an add command. It has one parameter, object to add. If you are not sure, just create an empty object. Otherwise you can directly define specific object attributes as in picture 3.10. The new object will immediately appear in document list, so you can open it and continue working with it, for example add a new attribute as in picture 3.10.

```
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 3.10: 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 3.11: Add and modify