

Analysis and documentation of a single page application based on TiddlyWiki

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Contents

1	Introduction	1	2
2	Decomposition of the TiddlyWiki-Architecture	3	2
2.1	Architecture of the single page application TiddlyWiki	1	2
2.2	Tiddler as the key element	1	3
2.3	The WikiText concept	1	3
3	Bootstrap-Process	2-3	3
3.1	The Heart of TiddlyWiki (Boot-Kernel)	1 - 1.5	3
3.2	Timeline of the startup Process	1 - 1.5	3
4	The Plugin and Module concept	4-5	3
4.1	Introduction to the Plugin-Concept	1	3
4.2	Kernel-Plugins	1	3
4.3	UI-Elements	1	3
4.4	Developing a own Plugin	1-2	3
5	The TiddlyWiki data management concept	2-3	3
5.1	Data Management during Runtime	1-2	3
5.2	Data Persistence	1	4
6	Summary and Conclusion	1-2	4
	Pages	Min:13 Max:17	

1 Introduction 1

2 Decomposition of the TiddlyWiki-Architecture

3

2.1 Architecture of the single page application Tiddly-Wiki 1

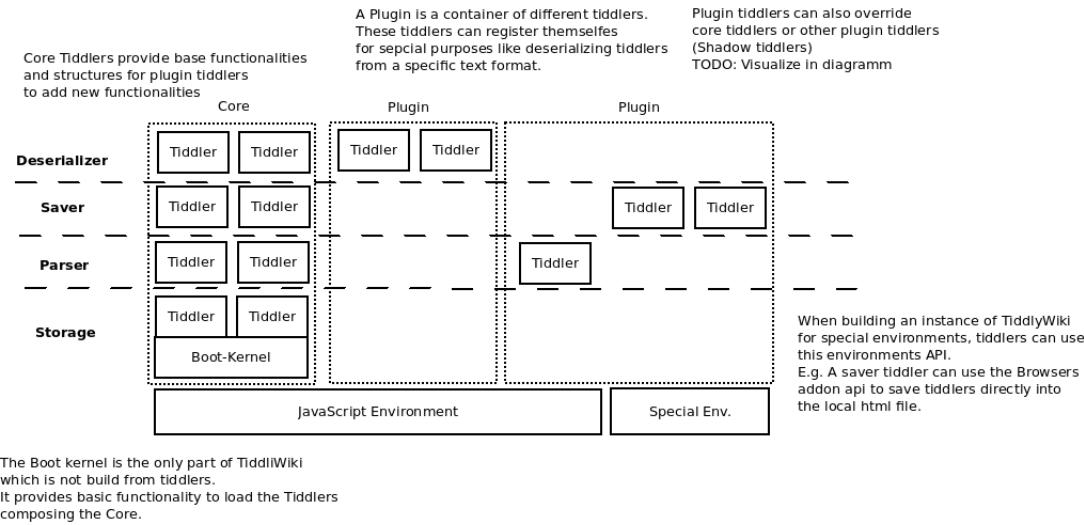


Figure 1: Decomposition of TW

- 2.2 Tiddler as the key element 1
- 2.3 The WikiText concept 1
- 3 Bootstrap-Process 2-3**
 - 3.1 The Heart of TiddlyWiki (Boot-Kernel) 1 - 1.5
 - 3.2 Timeline of the startup Process 1 - 1.5
- 4 The Plugin and Module concept 4-5**
 - 4.1 Introduction to the Plugin-Concept 1
 - 4.2 Kernel-Plugins 1
 - 4.3 UI-Elements 1
 - 4.4 Developing a own Plugin 1-2
- 5 The TiddlyWiki data management concept 2-3**
 - 5.1 Data Management during Runtime 1-2

5.2 Data Persistence 1

Persist data

TiddlyWiki supports a wide range of methods to persist your data. One of these methods is the HTML5 fallback saver. This method works on almost every browser. With this method a copy of the entire wiki will be downloaded by the browser. This means you get a new file everytime you hit the save button. To avoid this there are some plugins for different browsers to allow to save direct to the current open TiddlyWiki-File.

Data-Storage

TiddlyWiki persists the data within the HTML-File in two Div-Areas depending on whether the encryption of the TiddlyWiki is activated or not. If the TiddlyWiki is not encrypted the data is stored in the Div-Area called "StoreArea". Every created Tiddler is stored in its own Div-area with a few custom values. An example of a saved Tiddler is shown below.

```
1 <div created=" 20140611153703343" modified="
    20140611153734589" tags="testTag" testfield="
    testvalue" title="TestTiddler" type="text/plain">
2     <pre>testText</pre>
3 </div>
```

Listing 1: Data-Div

With an activated encryption the data is stored in a special Div-Area called "encryptedStoreArea". TiddlyWiki uses the Stanford JavaScript Crypto Library¹. The encrypted Tiddlers are saved in a JSON string within this Div-Area.

6 Summary and Conclusion 1-2

¹<http://bitwiseshiftleft.github.io/sjcl/>