



# Getting started

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*Documentation for the FSC Identikit*



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## 1 Contents

1	Contents.....	2
2	Introduction .....	3
3	Installing the FSC Identikit .....	3
4	Set up your computer to run web pages locally .....	4
5	Run the visualisation web page .....	4
6	Create a new knowledge-base and visualisation.....	5



## 2 Introduction

The FSC Identikit is an open source framework for creating new identification resources that run as 'web apps' in web browsers. You can use the Identikit to create a new ID web app simply by creating a knowledge-base using a spreadsheet.

But it's not always convenient or desirable to run your app on a website, especially while you are developing a new knowledge-base. The good news is that you don't have to. Instead, you can get your own computer to run as a little mini-webserver and run it locally.

These instructions tell you:


1. How to install the Identikit on your computer.
2. How to set up your computer to run web apps locally.
3. How to run the visualisations web page.
4. How to start a new knowledge-base and web app of your own.

## 3 Installing the FSC Identikit

These are the steps for installing the Identikit on your computer.

1. **Download the latest version of the Identikit** from <https://github.com/burkmarr/tombiovis/releases> - download the latest '**Source code (zip)**' file.

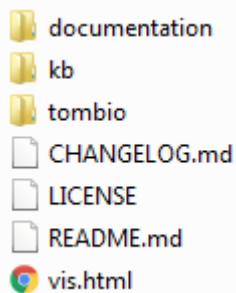
Downloads

 Source code (zip)



2. Unzip the Identikit zip file to a convenient location on your computer.

The Identikit is delivered as a zip file. Once you've downloaded and unzipped this file you will find a folder called something like: **tombiovis-1.2.3** (the version number at the end might be different). If you have a look in this folder you will see the folders and files shown below.

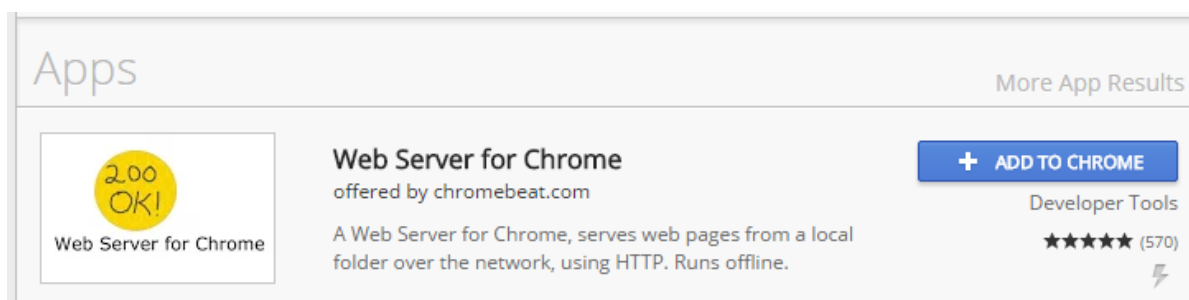


## 4 Set up your computer to run web pages locally

There are many ways you could set up your computer to run a local web server<sup>1</sup>. Early versions of the Identikit suggested using a program called 'Node.js' to do this, but we now recommend a much simpler cross-platform way of doing it with Google Chrome.

The 'Web Server' add-in is a simple tried, tested and trusted add-in to Google Chrome. It is simple to install and run on any platform that is supported by Chrome (including Windows, Mac and Linux).

1. If you don't already have Google Chrome installed on your computer, do that first.
2. From the 'Chrome Web Store' (<https://chrome.google.com/webstore/category/extensions>) search for and then add the 'Web Server' app to Chrome.



Note that resources created with the FSC Identikit can be viewed on any modern browser, not just Chrome, so users of your visualisations have a free hand when it comes to browser choice. But as a knowledge-base developer, Chrome provides the best environment for you to work in.

## 5 Run the visualisation web page

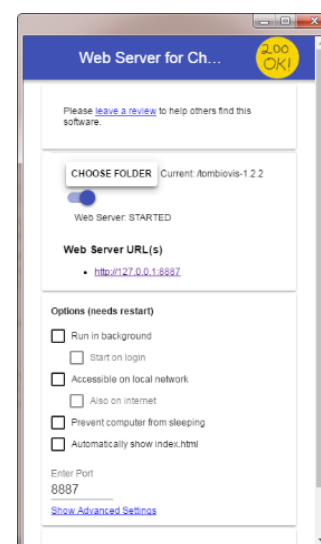
These steps show you how to run the visualisation app on your computer.

1. From Chrome, start the Web Server add-in and use the *Choose folder* button to select your folder (e.g. tombiovis-1.2.3).
2. Start the Identikit by entering the following URL into your web browser: <http://127.0.0.1:8887/vis.html>

Step 1 starts the local web server. To start a Chrome add-in, click the *Apps*



icon shown on the left which will show a tab in Google Chrome with your installed extensions. Then click the image corresponding to the Web Server add-in (also shown on the left). You can minimise the web server window whilst



<sup>1</sup> Note that running a local web server on your computer is not a security risk! It does not make your computer accessible to the outside world over the internet. It simply enables you to run a web application from your own computer, rather than over the internet.

working with the Identikit. When you close the web server window, it will stop running.

Step 2 starts the visualisation web app. It is running on the example knowledge-base provided with the Identikit – the biscuits knowledge-base.

Repeat these steps whenever you need to start the local web server and the visualisation app.

Select a tool: Two-column key About this visualisation tool Reload

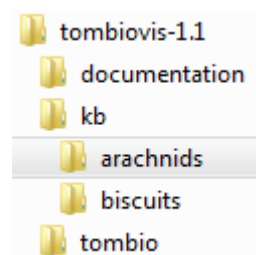
	Shape	Evidence balance positive	Evidence balance negative
All	select option	Choc Chip Cookie 1	Custard Cream -1
Structure	Single or Double Biscuit	Milk Chocolate Finger 1	Bourbon Cream -1
Decorations	Single ✕	Milk Chocolate Digestive 1	Romany Vanilla Cream -1
Colour	Coating select option	Shortcake 1	Jam Sandwich Cream -1
Size		Rich Highland Shortie 1	Rich's fantasy biscuit 2 -1
Taste			Happy Face -1

## 6 Create a new knowledge-base and visualisation

It is unlikely that you downloaded the Identikit to obtain an identification resource for biscuits! Its more likely that you want to have a go at creating a new knowledge-base of your own to drive a new ID resource. Here's one way you can make a start.

(You are given only the very briefest introduction to creating a knowledge-base below. For a proper guide you should read the 'Building a knowledge-base' document included with the Identikit.)

1. In the 'kb' folder under the main folder, **create a new folder** corresponding to the resource you'd like to make, e.g. 'arachnids'.
2. **Copy** the file '**kb/biscuits/biscuits.xlsm**' into your new folder and rename it, e.g. '**kb/arachnids/arachnids.xlsm**'.



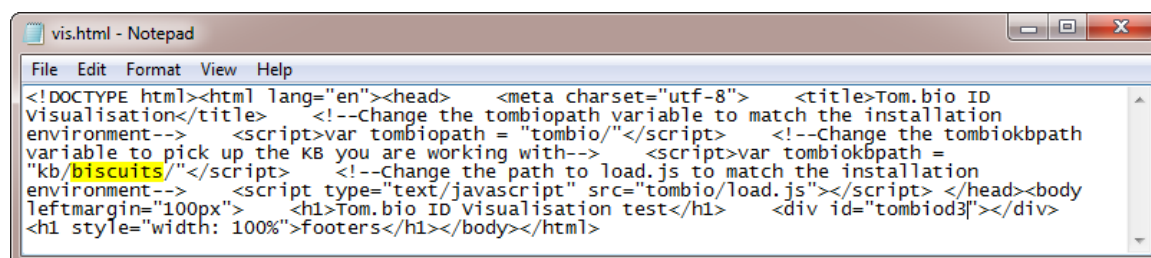


3. In the main folder, you will notice a file called **'vis.html'** – this is the main web app page. (It's a very lightweight little thing – the Identikit loads your visualisation into this dynamically.)  
**Open this file in a text editor.** In some text editors, it appears nicely formatted as show below.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>FSC Identikit</title>
  <script>
    //Legacy method (still supported)
    //var tombiopath = "tombio/" //deprecated from 1.6.0
    //var tombiokbpath = "kb/biscuits/" //deprecated from 1.6.0

    //Set options to tailor page configuration (from 1.6.0 onwards)
    var tombiovis = {
      opts: {
        hideVisDropdown: false,
        //tools: ["vis1", "vis2", "vis3", "vis4", "vis5"],
        //selectedTool: "vis1",
        //lastVisualisation: "vis1",
        toolconfig: {
          keyinput: {
            selectedGroup: "Structure",
          },
          //vis4: {
            //  subTitleChar: "CommonName"
          //}
        },
        //tombiover: "refresh-1",
        checkKB: true,
        devel: true,
        tombiopath: "tombio/",
        tombiokbpath: "kb/biscuits/"
      },
    }
    [...]
  </script>
</head>
<body>
  <h1 id="tombiod3-header">FSC Identikit test</h1>
  <div id="tombiod3"></div>
  <div id="tombiod3-footer" style="width: 100%">footers</div>
</body>
</html>
```

In other text editors, e.g. Notepad, it may look rather more like this:





We recommend a lightweight and free text editor called Notepad++. This is very user-friendly for editing HTML – it will colour text and tags different and make it much less likely that you will make mistakes. You can download it here: <https://notepad-plus-plus.org/download/v7.5.6.html>. When you open this document with Notepad++, it looks a little like this:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width,initial-scale=1">
  <title>FSC Identikit</title>
  <script>
    //Legacy method (still supported)
    //var tombiopath = "tombio/" //deprecated from 1.6.0
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    //Set options to tailor page configuration (from 1.6.0 onwards)
    var tombiovis = {
      opts: {
        hideVisDropdown: false,
        //tools: ["vis1", "vis2", "vis3", "vis4", "vis5"],
        //selectedTool: "vis1",
        //lastVisualisation: "vis1",
        toolconfig: {
          keyinput: {
            selectedGroup: "Structure",
          },
          //vis4: {
            //  subTitleChar: "CommonName"
          //}
        },
        //tombiover: "refresh-1",
        checkKB: true,
        devel: true,
        tombiopath: "tombio/",
        tombiokbpath: "kb/biscuits/"
      },
    }
  </script>
  [...]
</head>
<body>
  <h1 id="tombiod3-header">FSC Identikit test</h1>
  <div id="tombiod3"></div>
  <div id="tombiod3-footer" style="width: 100%">footers</div>
</body>
</html>
```

4. You need to direct the app page to look for your new knowledge-base rather than the biscuits one. To do that, **change the path of the knowledge base folder to the folder you just created** by changing the word ‘biscuits’ to the name of your new folder (e.g. ‘arachnids’) – see text highlighted in yellow above.



5. **Save the changes** you made to 'vis.html'.

6. Open your new knowledge-base Excel file (e.g. arachnids.xlsx) for editing. (You need to ensure that macros are 'enabled' – so respond accordingly to any questions.) On the 'config'

title	metadata	yes	Family Circle Biscuits
year	metadata	yes	2016
authors	metadata	yes	Bell, C.
publisher	metadata	no	Field Studies Council
location	metadata	no	Preston Montford, Shrewsbury

worksheet, **change the values** of the **title**, **year**, **authors**, **publisher** and **location** keys. (You can leave the values of publisher and location blank if you like.) Also **delete** one of the **release history** lines and edit the remaining one to something suitable.

7. Go to the 'macros' worksheet and **click the 'Save worksheets as CSV' button**. This creates five CSV files in the same folder as your knowledge base with the names, taxa.csv, characters.csv, values.csv, media.csv and config.csv, corresponding to the five worksheets of the same name in the knowledge-base. The Identikit reads these CSV files – not the spreadsheet – so you must repeat this step every time you modify the knowledge-base.

8. At this point you should be able to **run the web app** (see 'Run the visualisation web page' above) or, if it is already running, just **click the 'Reload' button**, to pick up the new knowledge base.



Currently it will look just like the biscuits knowledge-base because you haven't changed anything except some of the

**Select a tool:**

About the Knowledge-base

To confirm that you are picking up your new knowledge-base, select the 'About the knowledge-base' option from the 'Select a tool' drop-down. You should see some information reflecting the changes you made on the config worksheet.

## Arachnids visualisation

### Citation

Burkmar, R (2016) *Arachnids visualisation* (Version 0.1) [Knowledge-base] (for Tom.bio Framework for ID visualisations). Accessed Fri Nov 25 2016. <http://localhost:8080/vis.html>

### Knowledge-base revision history

Current version: 0.1

Date	Version	Notes
25/11/2016	0.1	Rich test installation

*At this point you've create a new knowledge-base and you understand how to run a visualisation from it on your computer and make changes. All that's left to do now is populate the knowledge base with real information! For instruction on that, read the '**Building a knowledge-base**' document.*