

Google Chrome Extensions



life michael

Jump Start

Introduction

- The google chrome extensions are small programs that modify the google chrome web browser.
- The main technologies in use when developing google chrome extensions include web technologies, such as HTML, JavaScript and CSS.

The manifest.json File

- The purpose of this file is to describe the extension and provides its meta data to the web browser.

```
{  
  "name": "My Hello World Extension",  
  "version": "1.0",  
  "manifest_version": 2,  
  "description": "This extensions prints Hello World",  
  "browser_action": {  
    "default_icon": "helloicon.png",  
    "default_popup": "hello.html"  
  }  
}
```



The HTML File

- We shall place the HTML file within the same folder that includes the files of the new extension. The HTML file cannot reside out of that folder.

```
<h1>Hello World!</h1>
```

The icon File

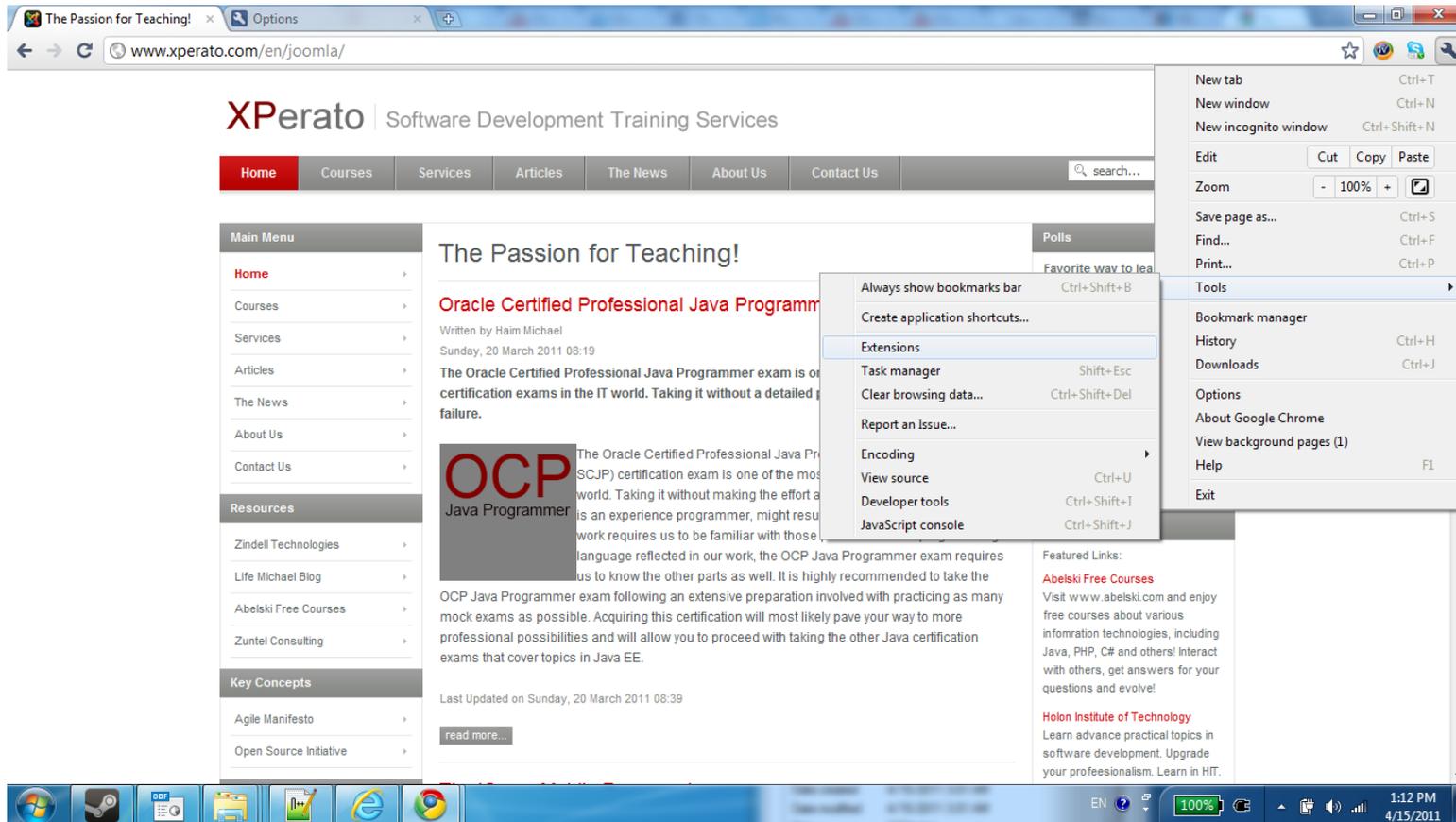
- The icon file should be with the PNG format. It should be with the 19x19 dimension.



The Developer Mode

- When developing extensions for the google chrome web browser we better switch to Developer Mode.
- In order to switch into that mode we should first select `Tools->Extensions`.

The Developer Mode



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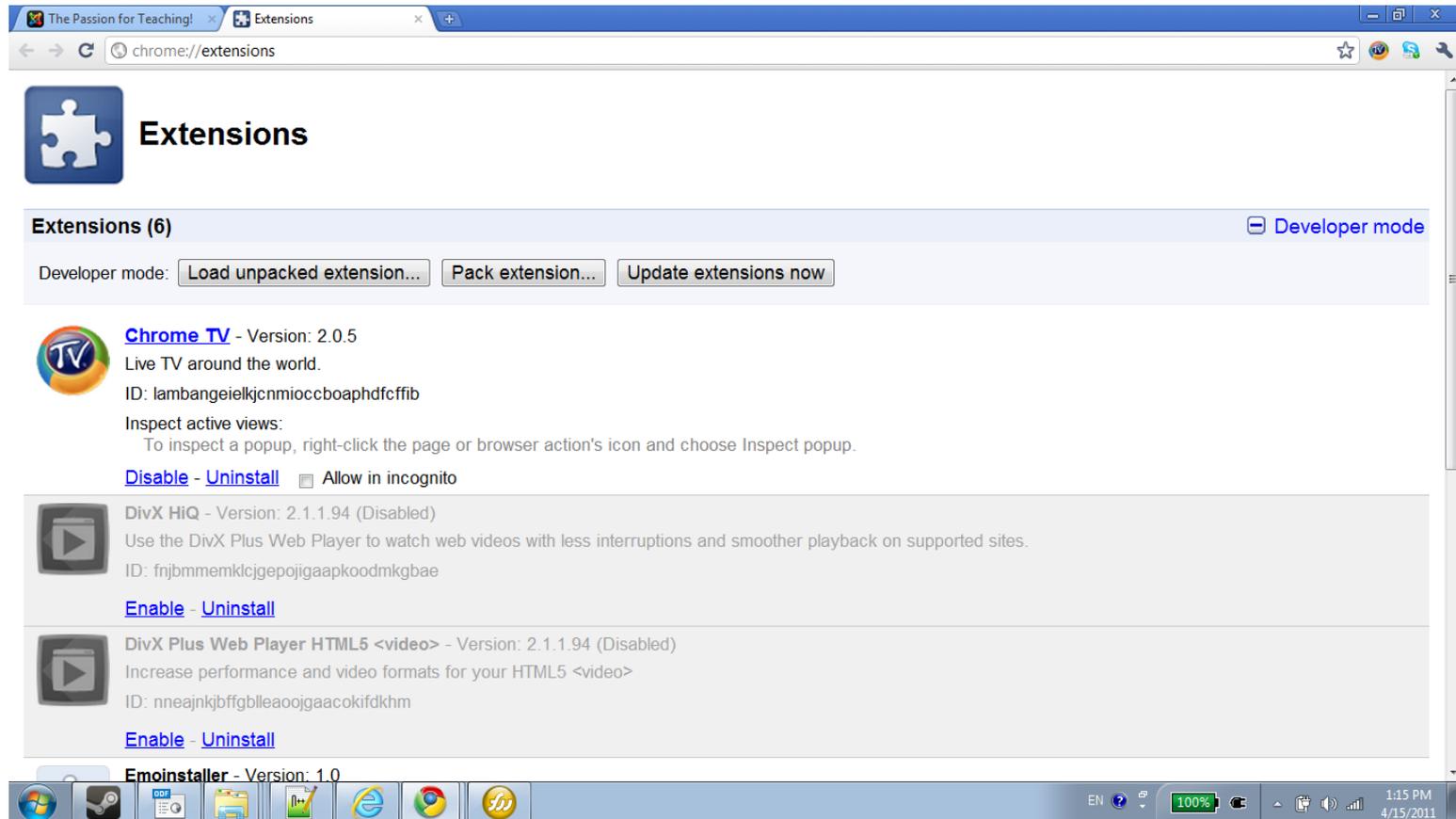
The Developer Mode

- On top right we can find a +/- sign we can use to turn on/off the Developer Mode state.

A rectangular button with a light blue background and a darker blue border. On the left side, there is a small square icon containing a minus sign (-). To the right of the icon, the text "Developer mode" is written in a blue, sans-serif font.

Developer mode

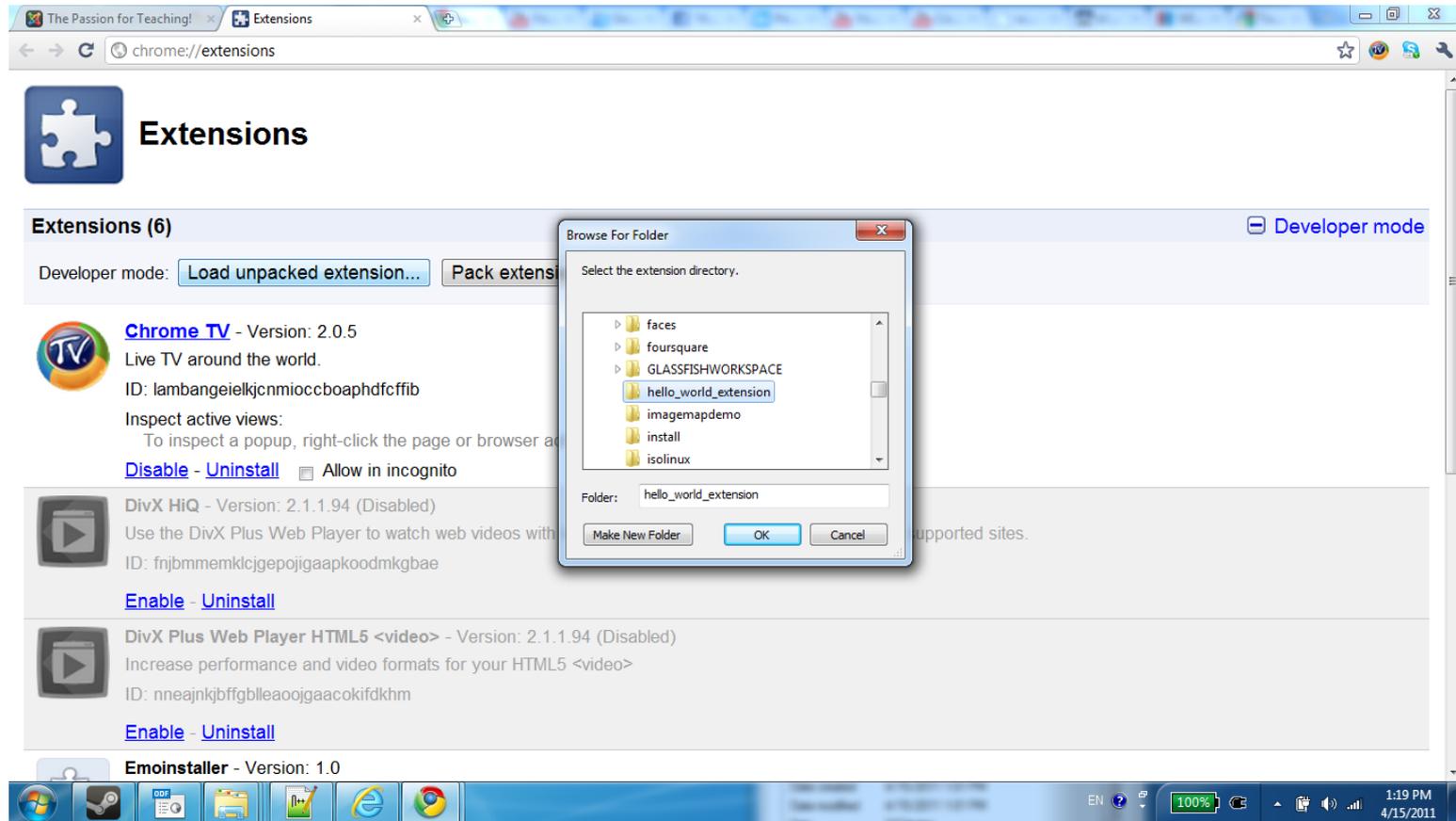
The Developer Mode



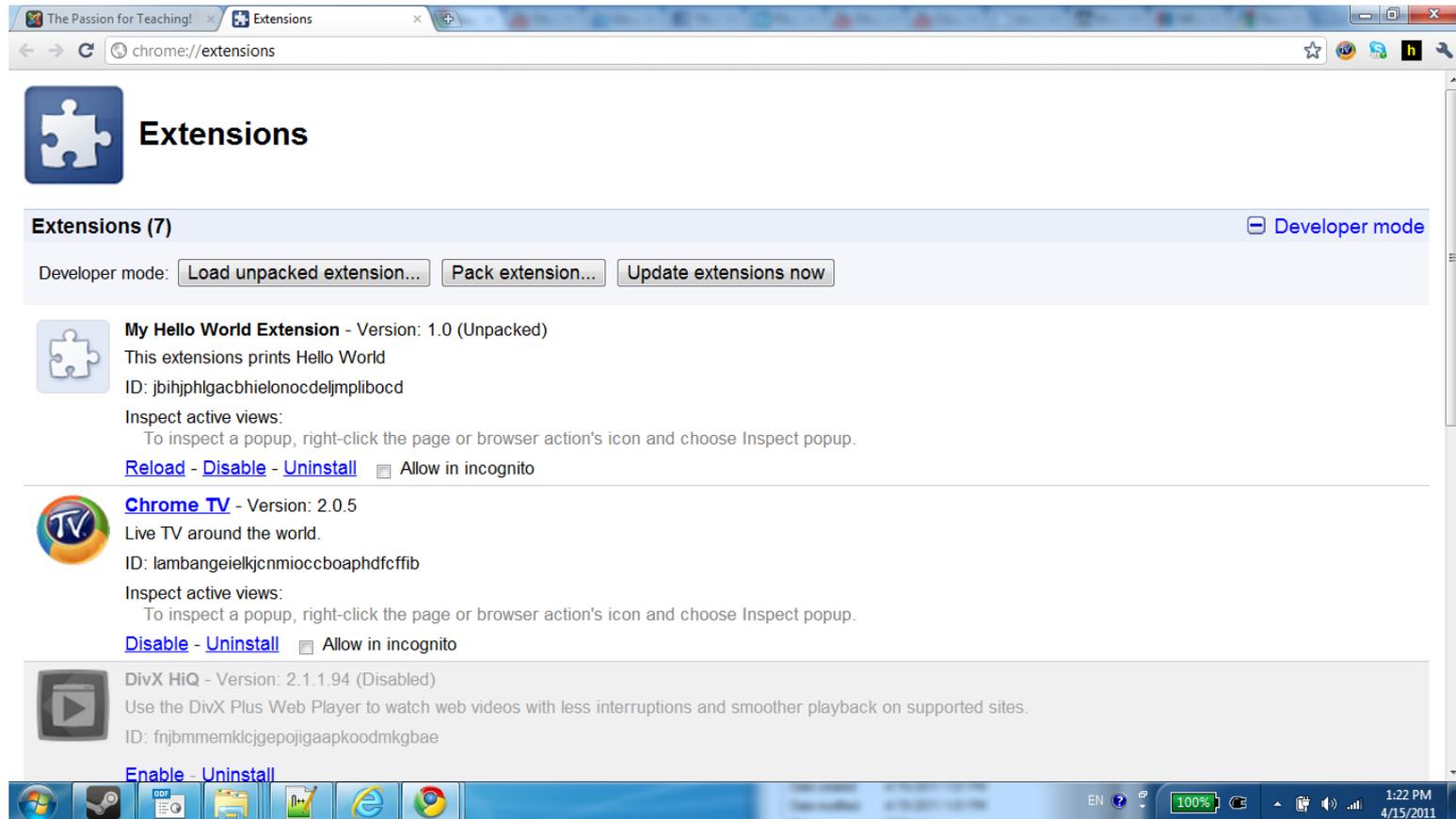
Loading The Extension

- Once the developer mode is turned on we can easily load the extension we developed.
- On top left we can find the `Load unpacked extension` button.
- When developing an extension we should create a separated folder for holding its files. In order to load an extension we just need to select its folder.

Loading The Extension



Loading The Extension



Running The Extension

- Once the extension was loaded we can now test it. Pressing the icon of the new extension should pop up a floating for displaying the extension in action.

Running The Extension

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Oracle Certified Professional Java Programmer

Written by Haim Michael
Sunday, 20 March 2011 08:19

The Oracle Certified Professional Java Programmer exam is one of the most difficult certification exams in the IT world. Taking it without a detailed preparation might result in a failure.

OCP Java Programmer

The Oracle Certified Professional Java Programmer (formerly known as SCJP) certification exam is one of the most difficult certifications in the IT world. Taking it without making the effort and get ready, even when the case is an experience programmer, might result in a failure. While the every day work requires us to be familiar with those parts of the Java programming language reflected in our work, the OCP Java Programmer exam requires us to know the other parts as well. It is highly recommended to take the OCP Java Programmer exam following an extensive preparation involved with practicing as many mock exams as possible. Acquiring this certification will most likely pave your way to more professional possibilities and will allow you to proceed with taking the other Java certification exams that cover topics in Java EE.

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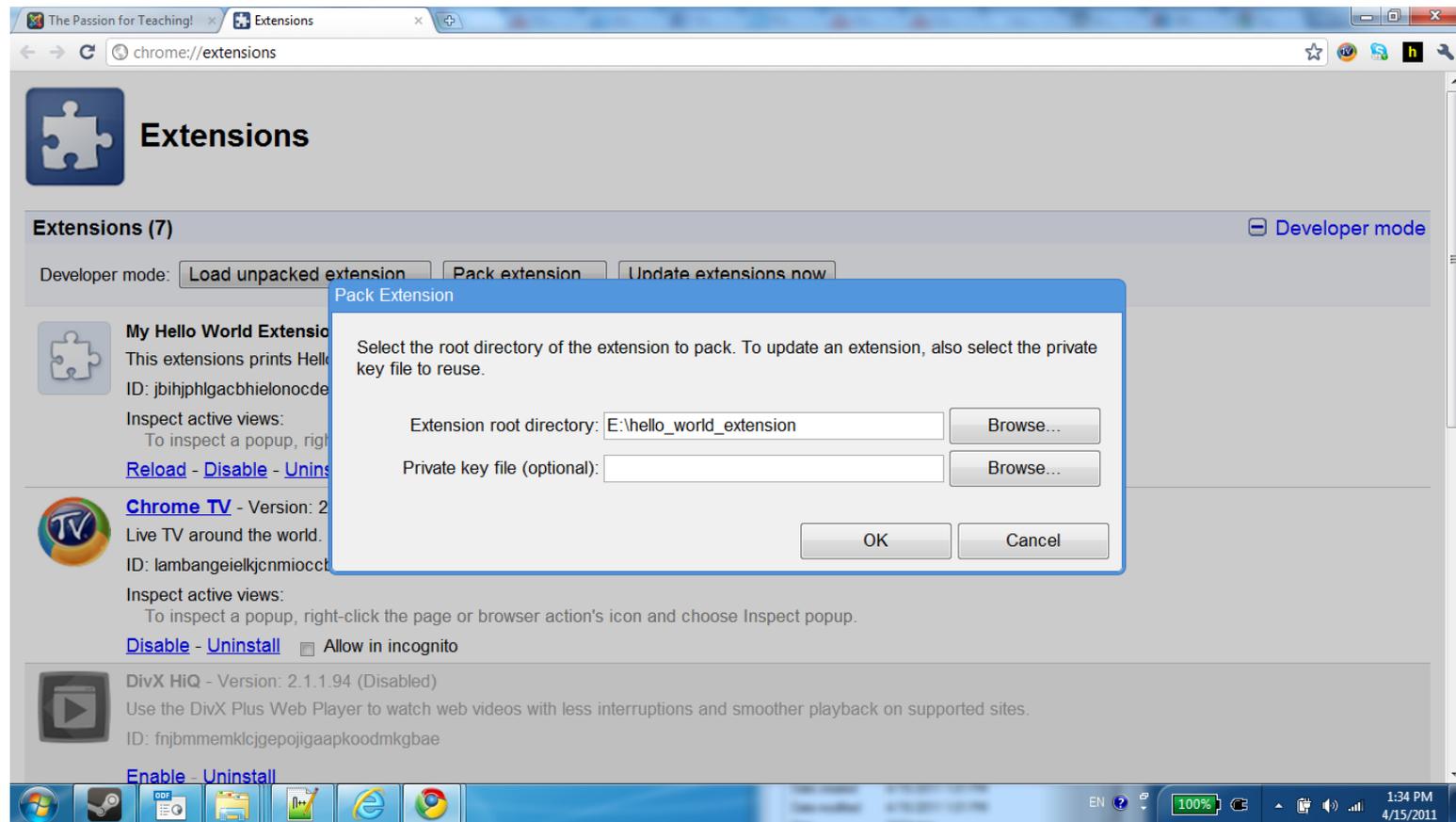
Hello World!

Packing The Extension

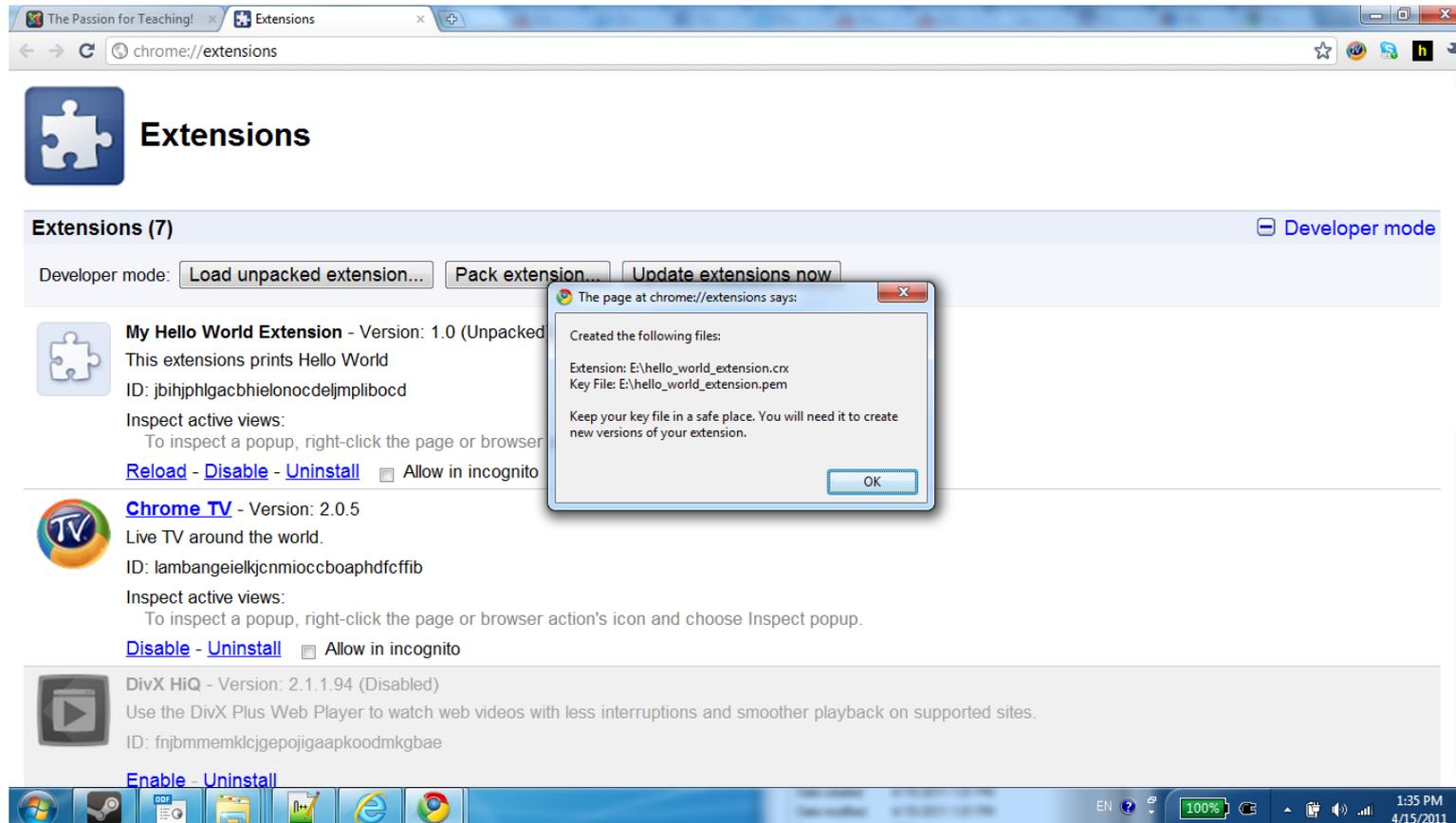
- Once the extension was loaded we can easily pack it as a `crx` file. We just need to select the folder that holds the files of our extension.



Packing The Extension



Packing The Extension



The `.crx` File Format

- The `.crx` file format is zip. It is a bundle of files such as HTML, CSS, JavaScript, images and any other file required for rendering the extension on the web browser screen.

Available APIs

- The extension is a web page that can use all APIs available for web pages, such as HTML5 and Ajax.
- The extension code can interact with web pages or servers using content scripts or the `XMLHttpRequests` object.
- The extension code can interact with the web browser, get data it uses and change its behavior.

Browser & Page Actions UI

- The extension can add its user interface to the google chrome web browser by adding either a browser action or a page action.
- Each extension can have one browser action or one page action (at the most).
- The browser action adds a user interface that will be displayed no matter which web page is browsed. The page action adds a user interface that will be displayed when browsing a specific web page only.

Other Types of UI

- The extension can add its user interface in other ways such as changing the context menu, including its own web page and changing the appearance of web pages (using content scripts).