

3DHOP Local Setup

Lezione 14 Maggio 2015

3DHOP Local Setup

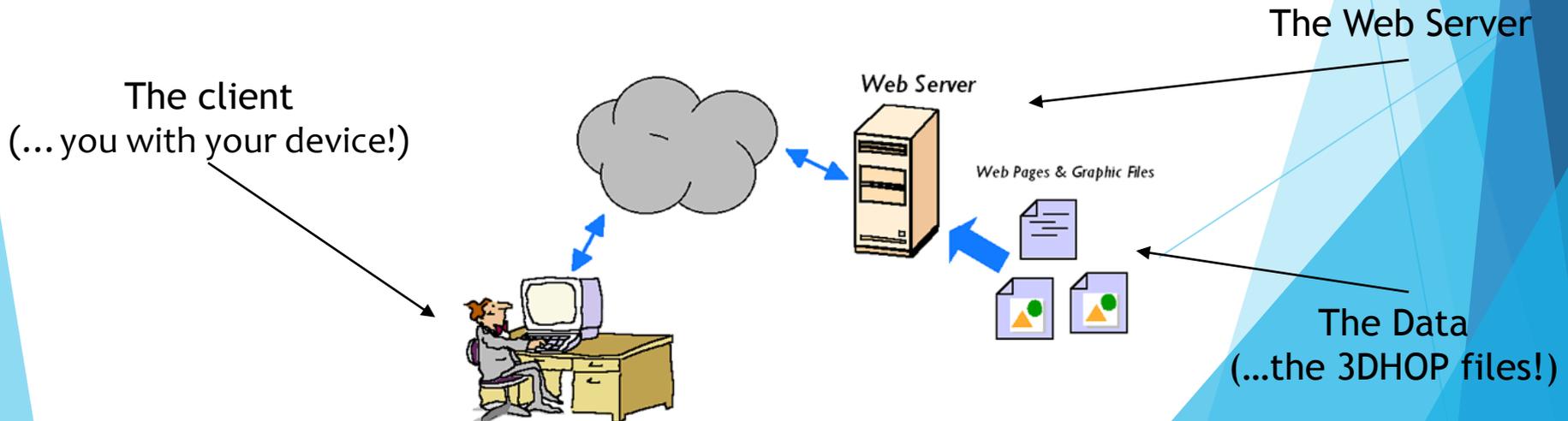
3DHOP...what is it?

- ▶ Basically a set of “web files”:
 - ▶ .html (hyper text markup language)
 - ▶ The main file, it contains the Web page structure e some basic functions.
 - ▶ .js (javascript)
 - ▶ The “brain” of the Web page, these files contain all the functions that make the web page “dynamic”.
 - ▶ .css (cascading style sheets)
 - ▶ The Web page aspect. This kind of file contains all the rules related to the page appearance.
 - ▶ ... (multimedia files)
 - ▶ All the multimedia contents of the Web page: pictures, video, audio, etc.

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The Web...how does it work?

- ▶ Essentially a data exchange between two actors:
 - ▶ Client
 - ▶ The final user, requests web pages (html, javascript, php, multimedia files) via the Web browser (Chrome, Firefox, Internet Explorer, etc).
 - ▶ Server
 - ▶ Its job is to retrieve files from the server's hard drive, format the files for the Web browser, and send them out via the network.



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Looking for a Web server

- ▶ 3DHOP has been designed to work OVER THE WEB, so with the data on a remote web server, accessed from the browser through the web.
- ▶ If you don't have a Web Server available, or you want developing Web pages locally...how can you do?
- ▶ Two ways:
 - ▶ Classic
 - ▶ Install a local Web Server on your computer that simulates a real one.
 - ▶ Smart
 - ▶ Force your Web browser to load files from your local device bypassing the Web Server.

Local Web Server

...using Apache

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The classic way (1)

- ▶ Install a local Web Server directly on your device.
- ▶ Apache HTTP Server (<http://httpd.apache.org>) is the world's most widely used Web Server software.
- ▶ For an easier installation you can use a Web Server solution stack package like XAMPP (free, open source and cross-platform).
- ▶ Just go to www.apachefriends.org download the XAMPP package and follow the installation instructions!



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The classic way (2)

- ▶ The classic way is not so difficult... but you may lose a lot of time:
 - ▶ Installing new software;
 - ▶ Looking for the right free network port;
 - ▶ Configuring Apache as OS service;
 - ▶ Etc, etc ...

Local Setup

...using Chrome

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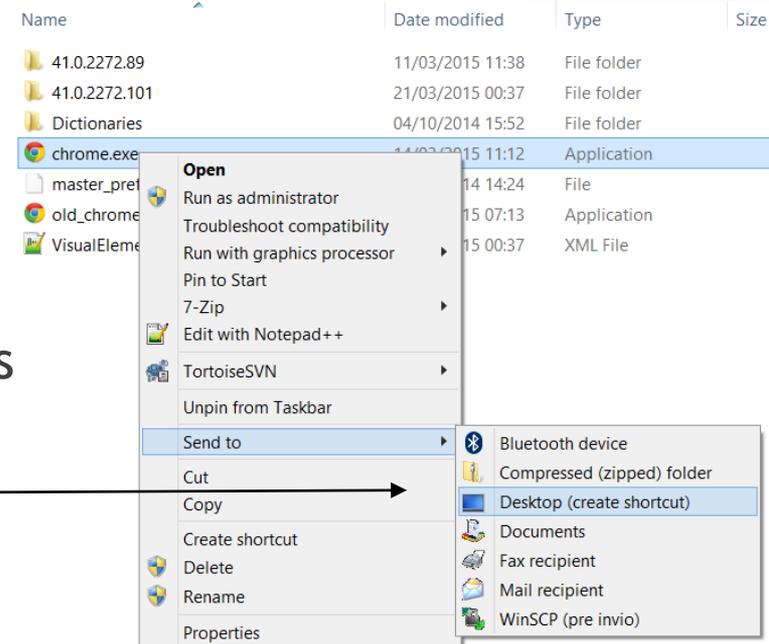
The smart way (1)

- ▶ The Google browser Chrome allows us to avoid installing a Web Server loading Web pages directly from our local PC.
- ▶ But, due to security issues loading files from a local path bypassing the server is an action usually forbidden to the browser.
- ▶ So we have to force our browser to do this task using a little trick...
- ▶ See how, step by step!

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The smart way (2)

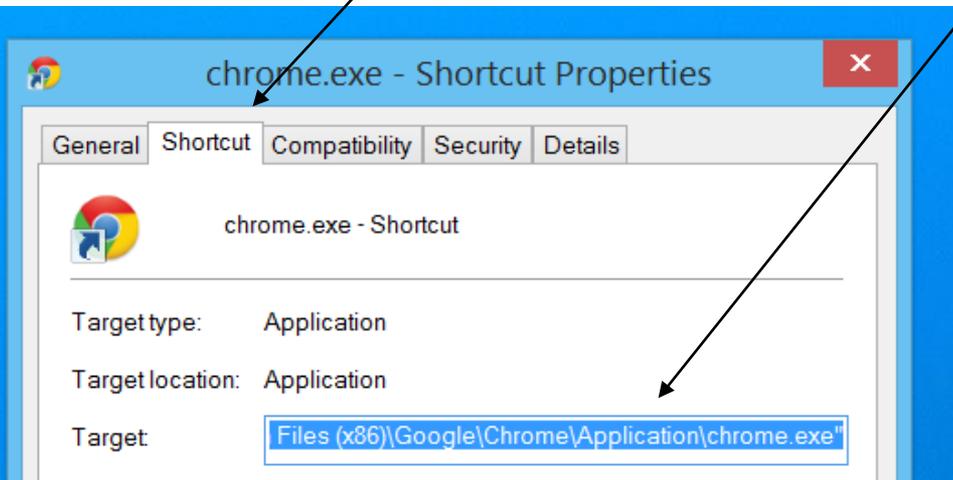
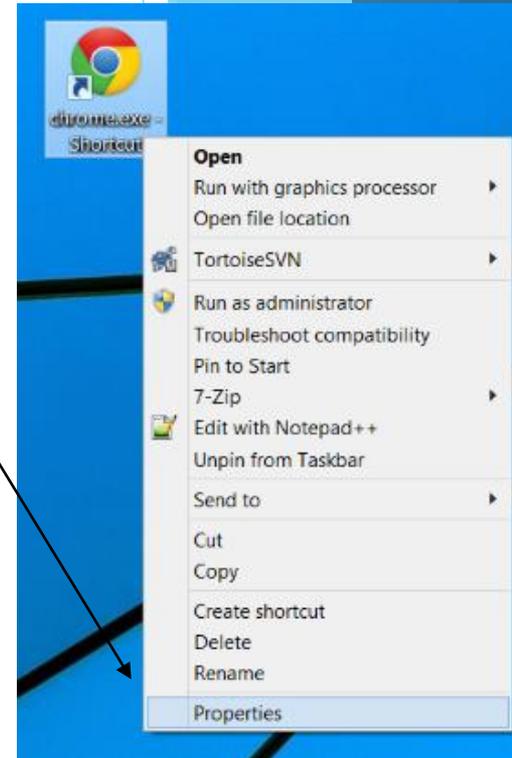
- ▶ Install Chrome on your device
 - ▶ Go to www.google.com/chrome , download the browser version suitable for your platform, and install it.
- ▶ Look for the file “chrome.exe”
 - ▶ Search it on your hard disk and go in the folder that contains it (usually C:\Program Files\Google\Chrome).
- ▶ Create a desktop shortcut
 - ▶ Create a link to chrome.exe and place it on your desktop (in Windows OS just right click on chrome.exe icon and then “Send to Desktop”).



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The smart way (3)

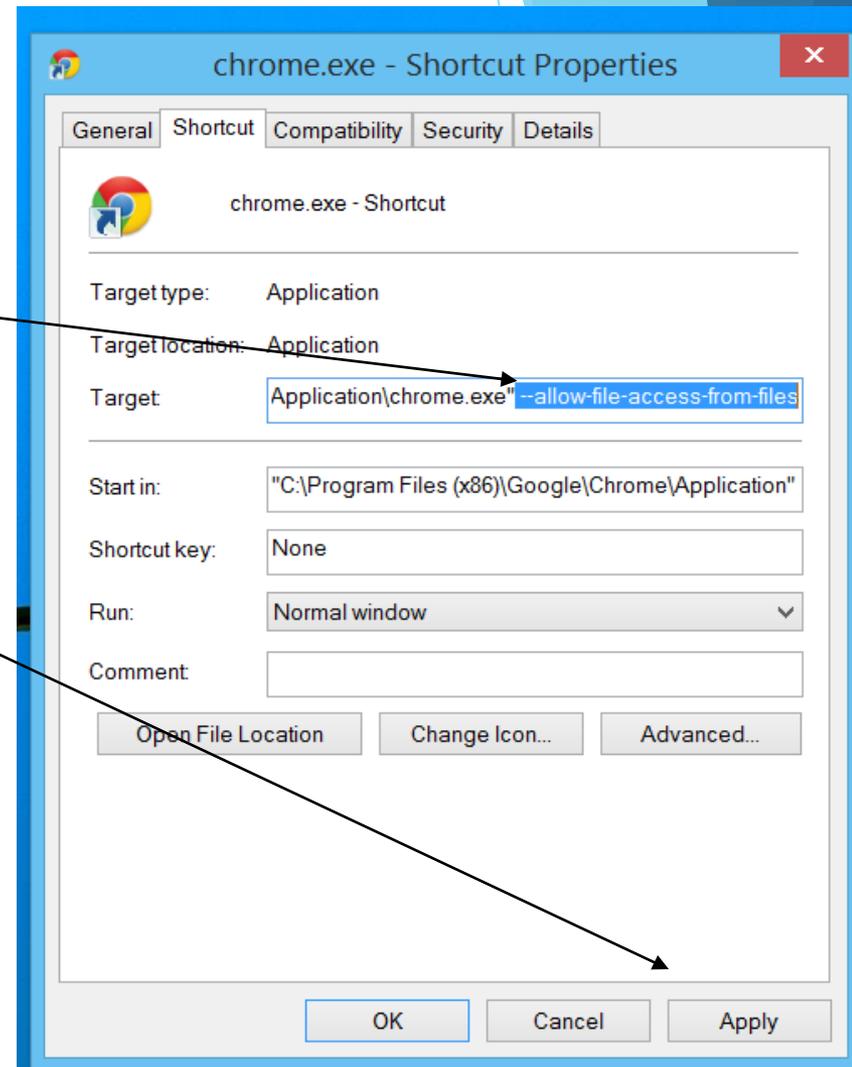
- ▶ Open the shortcut properties window
 - ▶ Go to your Desktop, right click on the just created Chrome shortcut icon, and then “Properties”.
- ▶ Look for the shortcut “target”
 - ▶ In the shortcut properties window, go in the “Shortcut” tab and look for the “Target” string.



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The smart way (4)

- ▶ Edit the “target” string
 - ▶ Change the target string just adding the parameter:
--allow-file-access-from-files
 - ▶ at the end of the string, then click “Apply”.
- ▶ Run Chrome
 - ▶ CLOSE ALL the Chrome browser windows open (if there are), run it from the shortcut and... that’s it!
 - ▶ Now your Chrome browser is ready...



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The smart way (5)

- ▶ This was the procedure for Windows OS, for Mac OS and Linux the procedure “should be” quite similar:
 - ▶ On Linux:
 - ▶ You should run Chrome from terminal, with the parameter as argument.
 - ▶ You should create an alias or a desktop shortcut (similarly to Windows).
 - ▶ On Mac:
 - ▶ You should run Chrome from terminal, using this command:
`open /Applications/Google\ Chrome.app --args --allow-file-access-from-files`
 - ▶ You should create an apple script using Automator.



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Questions?

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