

Data vs Presentation

Excel Cells

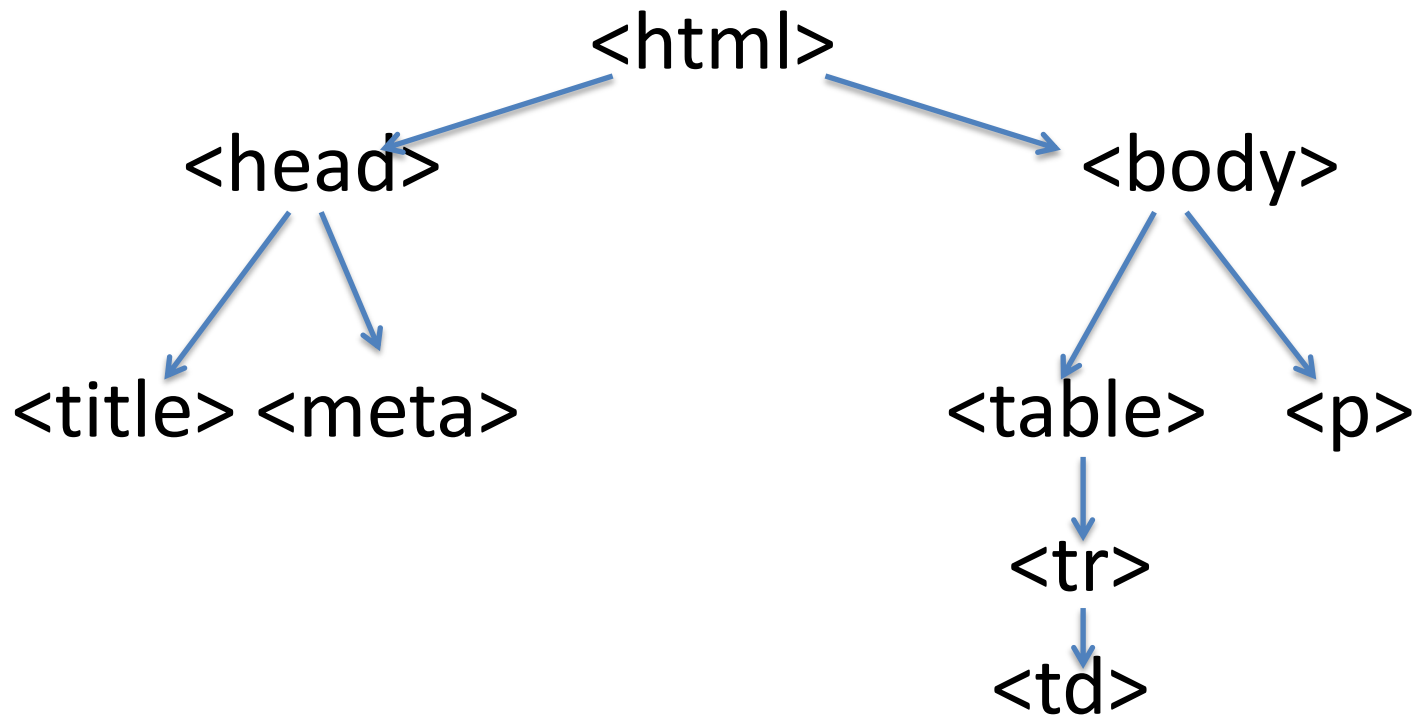
- In Excel a cell have:
 - a **name** (address), which permit to address it in the grid
 - a **content**, which determines its value
 - its current **value**
 - a **format** which determines how *render* its current value on the screen

Flat vs Hierarchical Structure

- flat structure:
 - a box containing a set of values: the best you can do is to order the items inside respect to some index.
 - Ex: a wish-list ordered by increasing cost
- hierarchical structure:
 - a folder containing other folder; each folder groups data (and folder) with the same "kind", inside folders are more "specialized" respect to the parents folders
 - Ex: a postal address: World, Europe, Italy, Milan, Via conservatorio, 7

HTML

- hierarchical structure: the DOM



Tag Attribute

- `This is red`
- `<table border="1">`
- `<td colspan="2">`
- ``
- `<div style="display:none">`

Server Side Computation

- the classical (ancient) model
- Cost:
 - Server do everything, client only renders replies
 - each page modification has to be performed by a new request
- Benefits:
 - minimal client requests

Client Side Scripting

- Elective language: javascript
- benefits:
 - some task, like form syntax verification, can be performed by the client
 - it can permit a more powerful interaction with user
 - it can permit to change on the fly the content of the DOM
- Cost:
 - it require CPU, memory (and battery)
 - it may be used by viruses