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#### Random file

- You are only given the name of the file, and no other information.
- You need to figure out everything else about the file on your own.
- Supervisors only help with specific programming problems, not general questions about the file or its contents

### What to do?

- Do some detective work documenting the
  To help you displaying the file
  To prepare for writing the report, which requires that the questions on the following slides are answered
  Not all questions have answers, but we need to research to know as much as possible about the file
- Write code to display the file
  - Write an application that presents the file in an appropriate way (only tables is ok, like in the examples)
- If enough time, possibly some additional work
  Add filtering
  Add more data
  Test with other files found on the internet
  Extend the file in some way

Write a report that details all of the above

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### Questions to answer

- What kind of document is it, database centric (like tables in a database with a simple and well known structure) or document centric (like a web page or a word processor document with unknown structure)
- Who designed the file format, and when was it designed
- What is the format called and what is it used for?
- Are there any controversies surrounding the format?
- Is the format made for any specific type of application?
- . Is the format an official standard (such as ISO) and/or is there a DTD or schema for the file format?
- Are there specific API-s already made for working with this type of file?
- Are there other related formats?
- Are there other versions of this format, if so what are the chief differences:
- Is there anything else that is interesting about this file?
- Which form of presentation and which form of API is best for this type of file?
- Is there any book or other form of documentation that gives any type of information about this type of file?

Are there any other interesting things regarding this type of file that will be interesting for a reader of the report?

### Documentation

- Give a brief account of the layout of the file and what type of elements that it contains
- If there is a DTD or Schema, can it be used to validate the file, and what was the result of the validation?
- What do we learn about the chosen API, after having made the implementation, was it a good choice?
- What do we learn about the contents of the file, if the file for example stores a contract, describe as much as possible about the specific contract that is stored in the file
- Write code that is as specific to the contents of the file as possible

#### Considerations

- Some files are large, so perhaps it is enough to focus on a part of the file
- If the structure of the file is simple, place more importance on the presentation, if it has a more complicated structure, focus on the navigation of the file
- Make the code general so that it accepts other files of the same format, not just the given file
- If you have time, make the presentation interactive (for example through filtering like in the first miniassignments) or add graphics (like in the tips at the end of this lecture)

# Programming tips

- The large assignment is for the most part a question of making a the same code as in the smaller applications, but for a more complex dataset.
- There are however some differences
- Namespaces
  - Some files use namespaces, which make programming more complicated
- Working with graphics
- Generating box-graphicsSimple line graphics using html5

## Namespaces

- <person xmins="http://persondata.com/">
  <name>John</name>
  </person>

<root
xmlns:person="http://persondata.com/"
xmlns:car="http://cardata.com/">

## **Generating Boxes**

# Generating HTML5 code

- A precursor to the web programming course
- Some of the files contain data that can be represented graphically
- Either this data can be represented using text, by printing the information on-screen
- Or we could generate graphical primitives that use the data as a source for placement of graphics
  - Box graphics using ordinary html boxes
  - HTML5 code that draws lines directly

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