# Mobile Development: Plan for week 09 [week 08](M2016F_plan_Week08.pdf) - [week 10](M2016F_plan_Week10.pdf)

## Goal for this week

* You should be able to use json and xml as transport format and convert from/to more convenient format internal for presentation in your app.

**Preparation before Tuesday 1th March**

* Read about parsing XML and JSON
[XmlPullParser Android Developers](http://developer.android.com/reference/org/xmlpull/v1/XmlPullParser.html)
[Android XML Parsing Tutorial](http://www.androidhive.info/2011/11/android-xml-parsing-tutorial/)
[JSON - Android Developers](http://developer.android.com/reference/org/json/package-summary.html)
[Android JSON Tutorial: Create and Parse JSON data](http://www.javacodegeeks.com/2013/10/android-json-tutorial-create-and-parse-json-data.html)
* Eventual study a bit about json and xml format
json:
- <http://www.json.org/>
- <https://en.wikipedia.org/wiki/JSON>
xml:
- <http://www.tutorialspoint.com/xml/xml_syntax.htm>
- <http://www.tutorialspoint.com/xml/xml_tree_structure.htm>
- <http://www.tutorialspoint.com/xml/xml_attributes.htm>

## Teachers plan for Tuesday 1th March (9:00-12:00)

* Follow up on the weeks of study (adjusting plan for week together)
* Students presentation of their APPS work to now
* Working on app (see below)

## Preparation before Friday 4th March

* Make one or to apps that can retrieve list data from webservice in json/xml format and showing these in list and detail view
Ideas for small apps/exercises using asynchronous access.
	+ External data to be used with web access
		- Webservices for retrieving data <http://webservicedemo.datamatiker-skolen.dk/>
		Both with soap and REST call for JSON and XML
		- Webservices from Geo Fyn:
		[http://dataportal.geofyn.dk](http://geofyn-ckan.mapcentia.com/dataset)
		Examples
		Playground in Svendborg: [http://geofyn.mapcentia.com/api/v1/sql/geofyn?q=select%20\*%20from%20svendborg.legepladser](http://geofyn.mapcentia.com/api/v1/sql/geofyn?q=select%20*%20from%20svendborg.legepladser)
		Parks in Svendborg:
		[http://geofyn.mapcentia.com/api/v1/sql/geofyn?q=select%20\*%20from%20svendborg.parker](http://geofyn.mapcentia.com/api/v1/sql/geofyn?q=select%20*%20from%20svendborg.parker)
		Explore more from Geo Fyn in slides from presentation 23th February
		- [20160223 Erhvervsakademiet Lillebælt.pptx](http://bjoerks.net/klasser/Mobile_2016_Foraar/materials/20160223%20Erhvervsakademiet%20Lilleb%C3%A6lt.pptx)
	+ Make a RSS reader to get news from:
	- <http://dm-mobile.blogspot.dk/>
	- <https://www.sde.dk/SDE/site.aspx?p=793>
	- <http://www.dr.dk/Nyheder/Service/rss.htm>
	+ Explore more from Geo Fyn

## Teachers plan for Friday 4th March – 8:30-10:00

* Follow up on the weeks of study (adjusting plan for week together)

## More links extending to the weekly content

* From TheNewBoston about XML and JSON
	+ [150 - Introduction to JSON parsing](https://www.youtube.com/watch?v=H1o15gHPw2A&index=150&list=PL2F07DBCDCC01493A)
	+ [151 - JSONArrays and JSONObjects](https://www.youtube.com/watch?v=YgkhwNGIFOk&index=151&list=PL2F07DBCDCC01493A)
	+ [152 - Appending with StringBuilder](https://www.youtube.com/watch?v=USzAbMTK66s&index=152&list=PL2F07DBCDCC01493A)
	+ [153 - Reading JSON information](https://www.youtube.com/watch?v=5SP7a2thq6g&index=153&list=PL2F07DBCDCC01493A)
	+ [154 - Setting up XML Parsing Project](https://www.youtube.com/watch?v=Z1rtldBTzCE&index=154&list=PL2F07DBCDCC01493A)
	+ [155 - StringBuilder and XML Parsing Framework](https://www.youtube.com/watch?v=meXgGO4LTO8&index=155&list=PL2F07DBCDCC01493A)
	+ [156 - Setting up a parsed XML data collection class](https://www.youtube.com/watch?v=pb1vwqPE9hE&index=156&list=PL2F07DBCDCC01493A)
	+ [157 - SAXParserFactory and XMLReader](https://www.youtube.com/watch?v=Bi69ZAiYHOI&index=157&list=PL2F07DBCDCC01493A)
	+ [158 - Start Element method](https://www.youtube.com/watch?v=iIGtHOo1fqY&index=158&list=PL2F07DBCDCC01493A)
	+ [159 - Finishing XML parser](https://www.youtube.com/watch?v=dWV4Z4nHkS8&index=159&list=PL2F07DBCDCC01493A)