



Assignment 11 (HF, major subject)

Due: Wed 20.01.2015; 12:00h (1 week)

Goals

After doing these exercises,

- You can reliably create segment graphs
- You have created an eBook in ePub format
- You're ready to build web apps with Polymer

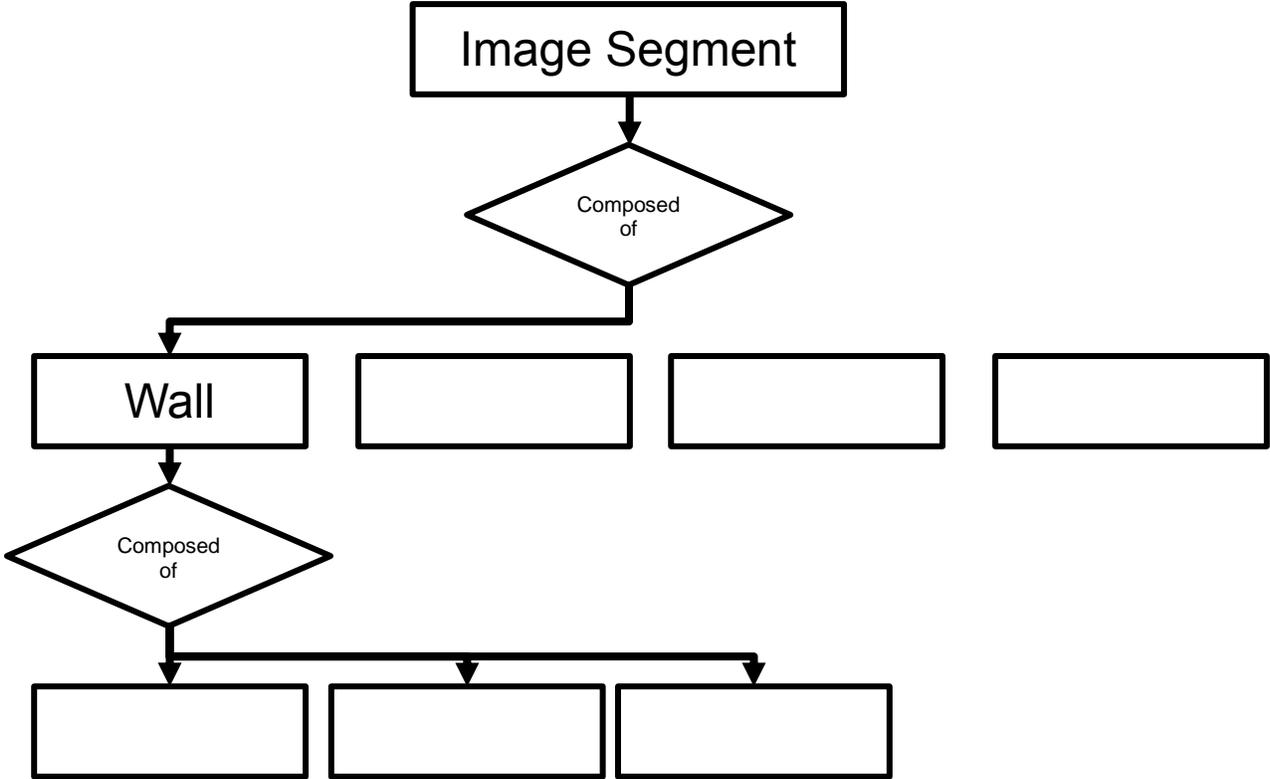
Task 1: Segment Graph

Difficulty: Easy



Photo: Tobias Seitz, 2015

Complete the segment graph diagram on the next page for the picture above.



Put a PDF file showing the solution into the folder 'task1'.



Task 2: ePub File Modifications

Difficulty: Easy

Download the short book “Das Urteil” by Franz Kafka from Project Gutenberg:

<http://www.gutenberg.org/ebooks/21593>

Examine the content of the file and answer the questions:

- Which files contain essence?
- Which files contain meta-data?
- In OEBPF/content.opf you see a lot of XML tags that start with dc: – what is this?

Now modify the e-Book.

- Download another Book by Franz Kafka and include it in the eBook.
- Give the eBook a new name. Something like “Franz Kafka – Selected Books” would make sense.
- Modify the table of contents. It should have the two books as top-level entries, which then include the individual chapters.
- Use CSS to color every heading.

Put your solution into the folder ‘task2’.

Task 3: Polymer Setup

Difficulty: Easy

As a final chapter of this year’s run of Online Multimedia, we will dive into (mobile) web application development with Polymer.

It is essential that you have everything in place before you participate in the tutorials next week.

The official web page <https://www.polymer-project.org/1.0/> has all the information you need, but we point out a few steps to set it up. We recommend the “Get started” guide (<https://www.polymer-project.org/1.0/docs/start/getting-the-code.html>)

You need bower to manage polymer (or at least this is the most convenient way as of now).

To install bower do this (assuming you already have NodeJS/npm in place):

```
npm install -g bower
```

You should try all the examples from the Polymer Quick Tour <https://www.polymer-project.org/1.0/docs/start/quick-tour.html>. In particular, try to do these things:

- Create and your first web component that has a local DOM
- Try to understand what databinding is.

If you want to know more, there are many tutorial videos on YouTube. We think this one is nice: https://youtu.be/k1eR_3KqJms. The videos in the “[Polycasts with Rob Dodson](#)” Playlist are helpful, but all episodes until Episode 15 use Polymer 0.5 which is incompatible with the current release.

You **do not** have to submit this task.



Submission

Put the solution to all tasks into a ZIP folder. Please turn in your solution via UniWorX. You can form groups of up to three people. After the submission deadline, push your solution to our [GitHub repository](#).