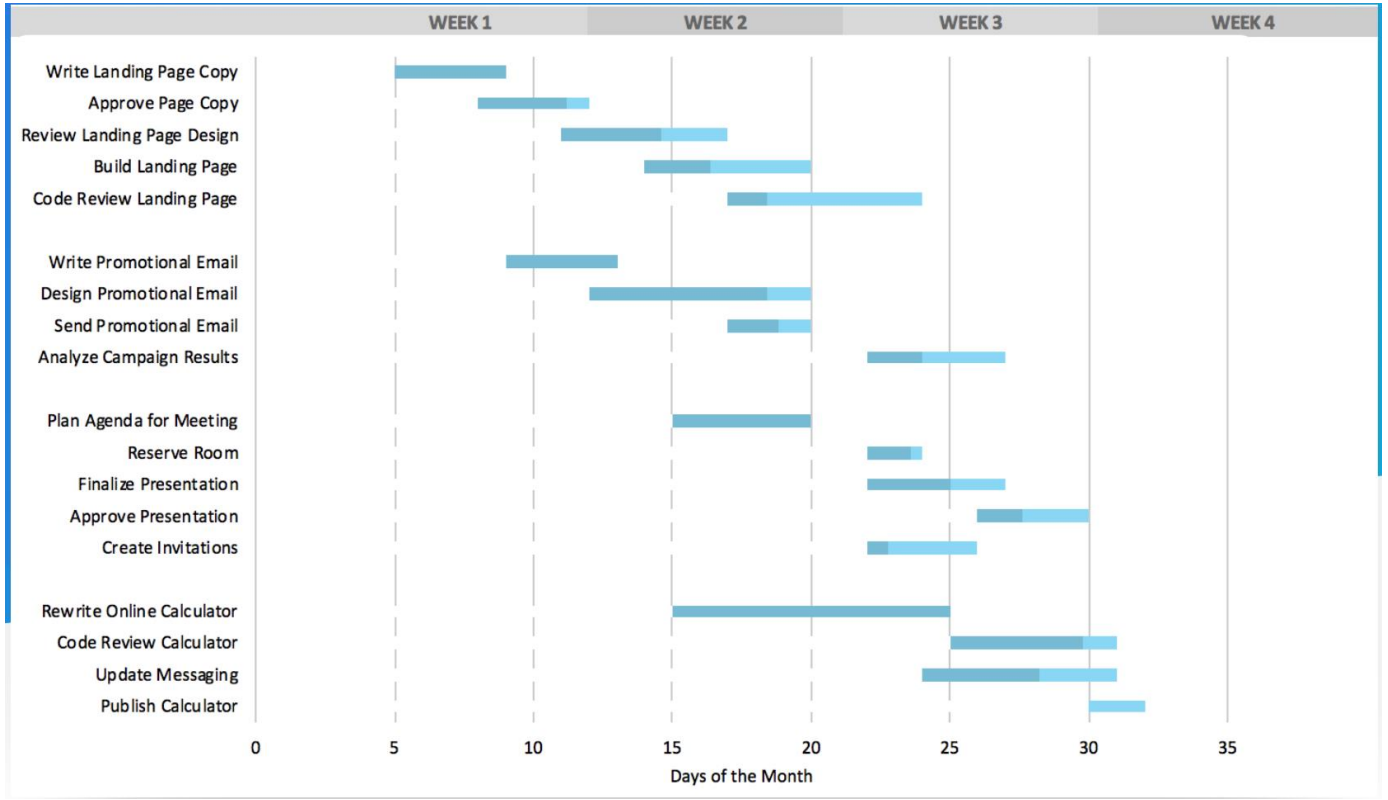
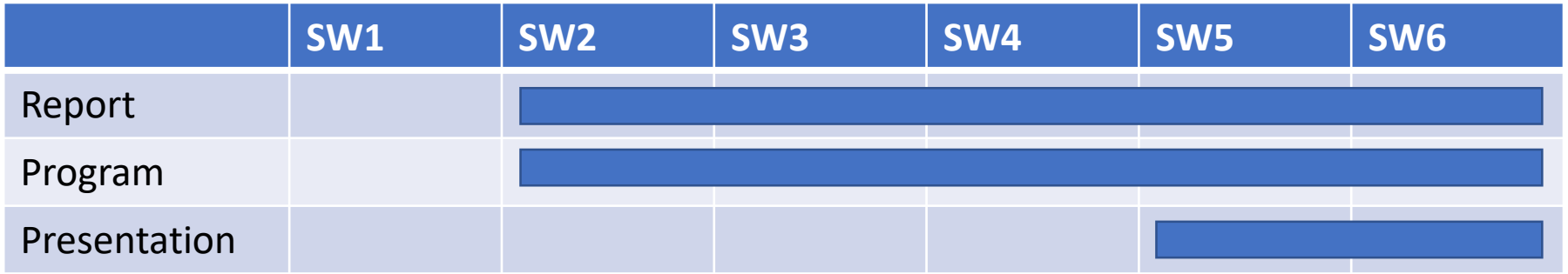
Workplan

Gantt chart (???)

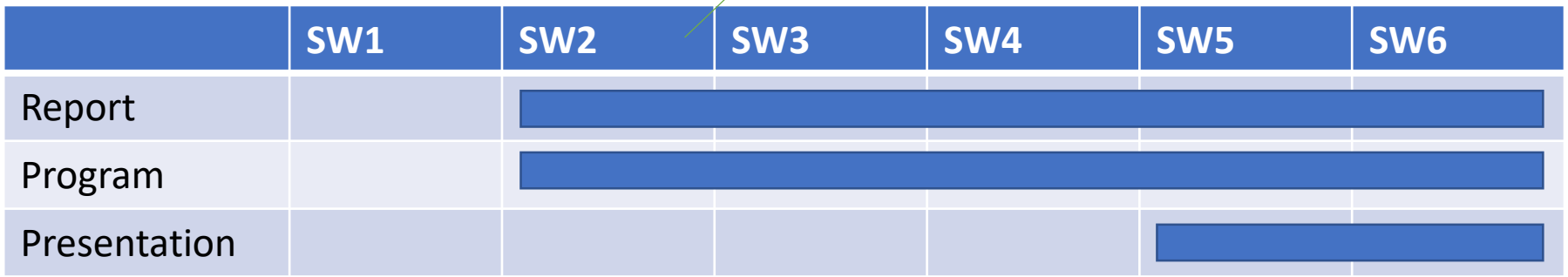

WEEK 1
WEEK 2
WEEK 3
WEEK 4
Write Landing Page Copy
Approve Page Copy
Review Landing Page Design
Build Landing Page
Code Review Landing Page
Write Promotional Email
Design Promotional Email
Send Promotional Email
Analyze Campaign Results
Plan Agenda for Meeting
Reserve Room
Finalize Presentation
Approve Presentation
Create Invitations
Rewrite Online Calculator
Code Review Calculator
Update Messaging
Publish Calculator
0
5
10
15
20
25
30
35
Days of the Month

Workplan for DAT300

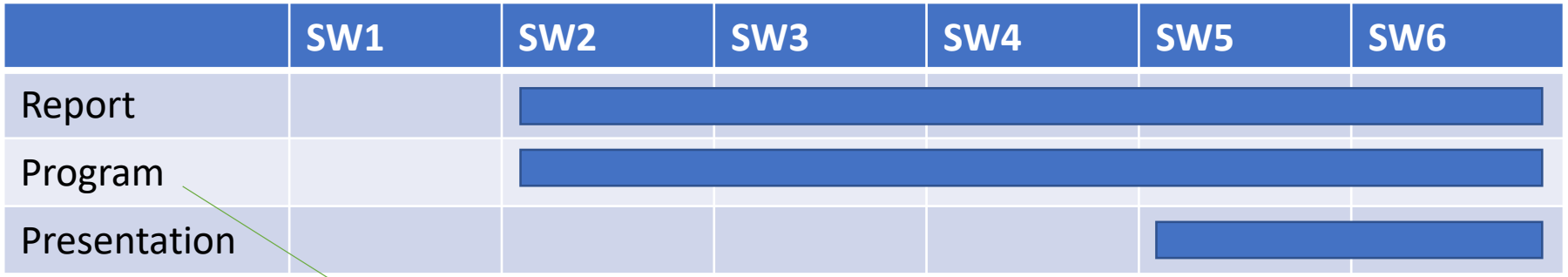


Workplan for DAT300

Time granularity?
Period? Day? Hour? Week?
→ *Week (3 days?) good for most student projects*



Workplan for DAT300



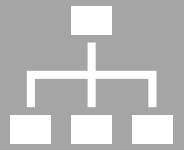
Tasks?
How many; Too large and the planning is meaningless.
Divide into suitable chunks(!)

Workplan Objective: used to plan your work

It should be of a good granularity for time:

master thesis = week;

here = 3 days / week?



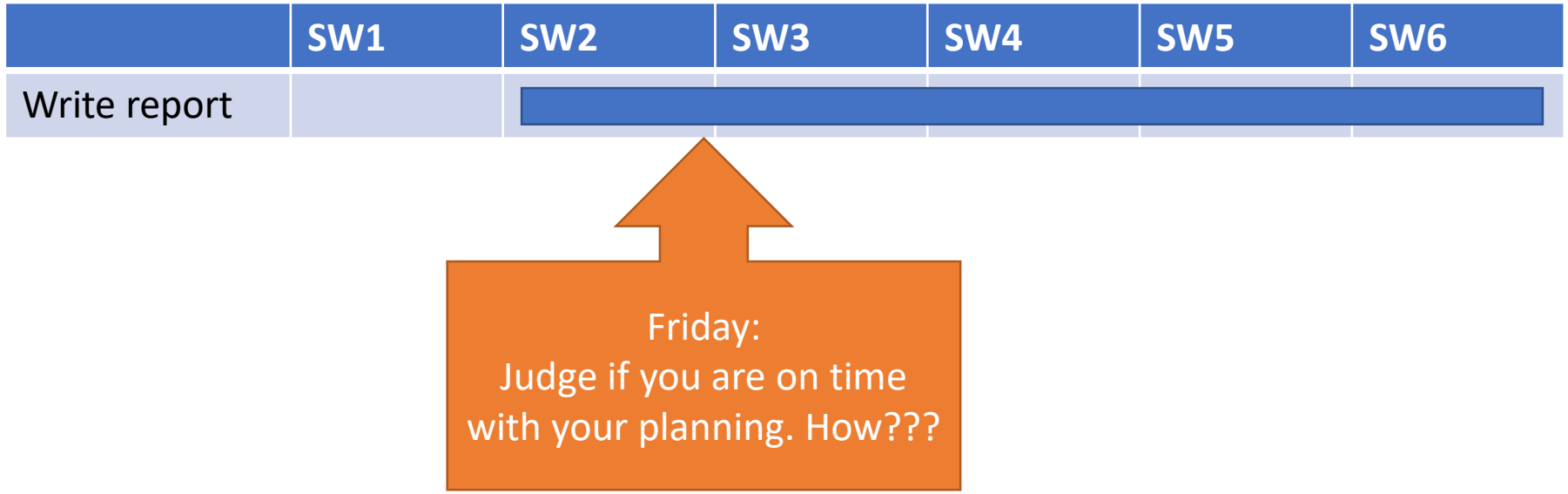
The task should be detailed and clear for you and others to understand.

Divide larger tasks into subtasks.

You should be able to judge when you are done

Concrete “milestone”?

Define Tasks



Define Tasks

Friday:
Judge if you are on time with your planning. How???

Guidelines

Avoid active ongoing verbs	Formulate it into paste tense? **Completed related work**
Gantt chart not needed	You can make a text description per week
Set a “deliverable” or “milestone” per week.	Something concrete that many can agree whether it is fulfilled.
Recipients?	For you to judge if you are on time For us to see if plan reasonable For us to see if you are on time

Write related work

Better Workplan (Planning Report)

Sw2	Write a complete abstract, ready to be shared with supervisors
	Write an outline of the report, to plan future activities
	Collect the papers needed for the related work
Sw3	Complete related work
	Set an outline for the experiments to be done
	Decide “application area”
Sw4	Complete experiment
	Run Experiment
	Write introduction
Sw5	Prepare draft of presentation → share with an other group for freedback
	Complete a draft of report → share with friends in DAT147 course
	Extra time in case of problem

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Planning report

Analyzing data streams from smart meters to provide statistics and detecting outliers

Core idea:
Provide statistics about households or regions for landlord or authorities

Motivation:
By providing statistics about power consumption a "smart" schedule could be generated to suggest customers to use their appliances at different times to reduce peaks. It could also be used to inform tenants that they are using more or less energy than the average tenant i order to reduce energy consumption. Overall goal that motivates the project is to increase the awareness regarding energy consumption by providing statistical data.

Objectives include the following:
Research data stream processing, statistics and outlier detection. Analyze data in real-time with a stream processing engine, the continuous queries will be for finding average values and detecting outliers. The average value can either be based on a single meter's consumption (over time) or an average on multiple meters' momentaneous values. With the help of average values the aim is to find outliers in the data which will be outputted into a graph together with both the momentaneous measurements and the average values.

Scientific challenges:

- Implement stream processing of measurement data
- Process the data with statistical methods to calculate average values and outliers in real-time
- Visualize the output from the statistical analysis

How will the scientific challenges be met?
Implementation in Apache Storm, processing of data with help of algorithms in *Mining of Massive Datasets* [1] and in *Online Outlier Detection in Sensor Data Using Non-Parametric models* [2], visualization with the help of frameworks for *Apache Storm*.

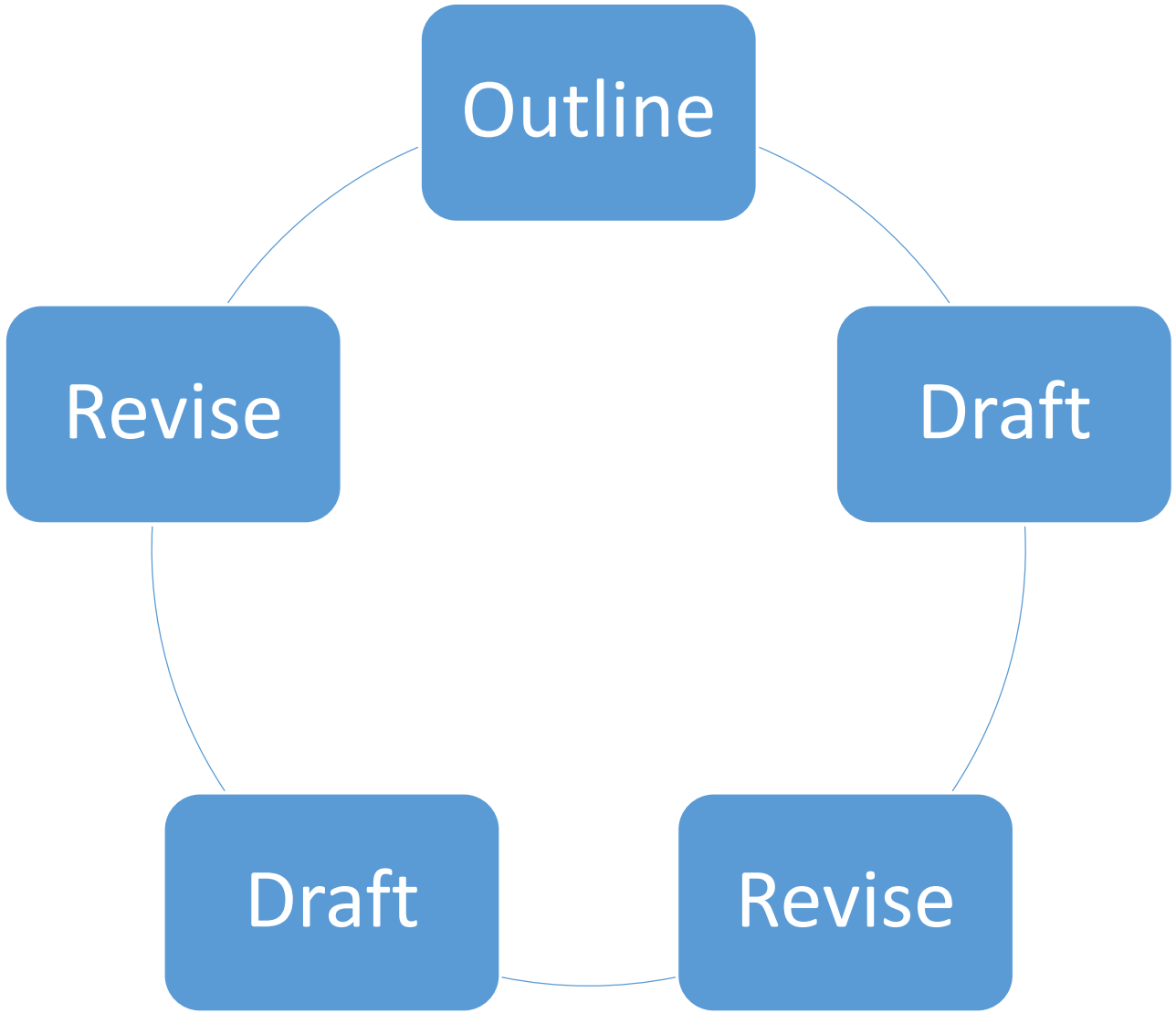
Timeline of project:

Week	Goals
37	Finish the planning report and select paper to present
38	Acquire background information by reading papers more carefully. Get started with Apache Storm (get it up and running and process some simple data).
39	Prepare paper presentation. Continue with implementing Apache Storm (start

Example in box

- Core idea
- Motivation
- Objectives
- Scientific challenges
- How will challenges be met / Approach
- Timeline (try to make it more concrete)

Work in Processes



Change the abstraction level