

CSC3031

Project Skills: Controlling your Project

John Fitzgerald, Simon Bowen

Announcements

- Classes/guest speakers update:
 - Mon 21st “Involving Users via Design Sprints”, Raghda Zahran
- Canvas discussion posts – peer review, future class topics
- [Tutorial slots](#): Mon, Tue, Thu 16:30-17:30, Fri 13:00-14:00
- [CSC3031 FAQs](#)

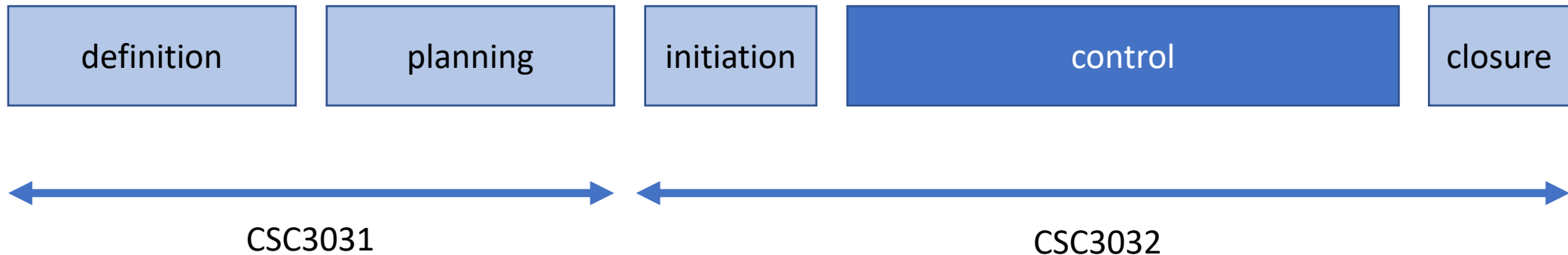
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Aims

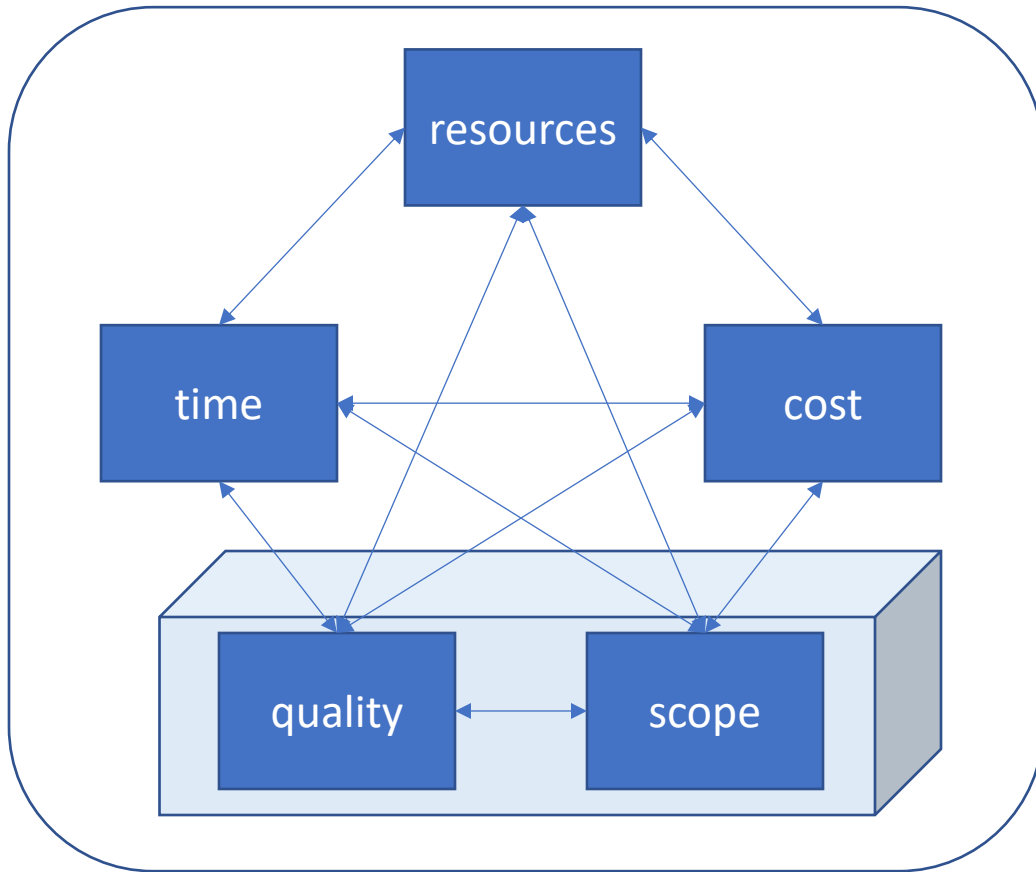
- Controlling your project – the elements involved
- Managing your time
- Working with your supervisor
- Reminder - what your project should achieve
- Dealing with problems
- (Tips from John and Simon)

Recap: the project process



| | | | | |
|----|----|----------|-----------------------------|----|
| 22 | 1 | 31/01/22 | Semester 2 Teaching (Start) | B4 |
| 23 | 2 | 07/02/22 | | |
| 24 | 3 | 14/02/22 | We are here | |
| 25 | 4 | 21/02/22 | | |
| 26 | 5 | 28/02/22 | | B5 |
| 27 | 6 | 07/03/22 | | |
| 28 | 7 | 14/03/22 | | |
| 29 | 8 | 21/03/22 | | |
| 30 | | 28/03/22 | Easter break | |
| 31 | | 04/04/22 | Easter break | |
| 32 | | 11/04/22 | Easter break | |
| 33 | | 18/04/22 | Easter break | |
| 34 | 9 | 25/04/22 | | B6 |
| 35 | 10 | 02/05/22 | | |
| 36 | 11 | 09/05/22 | | |
| 37 | | 16/05/22 | Revision/Buffer Week | |

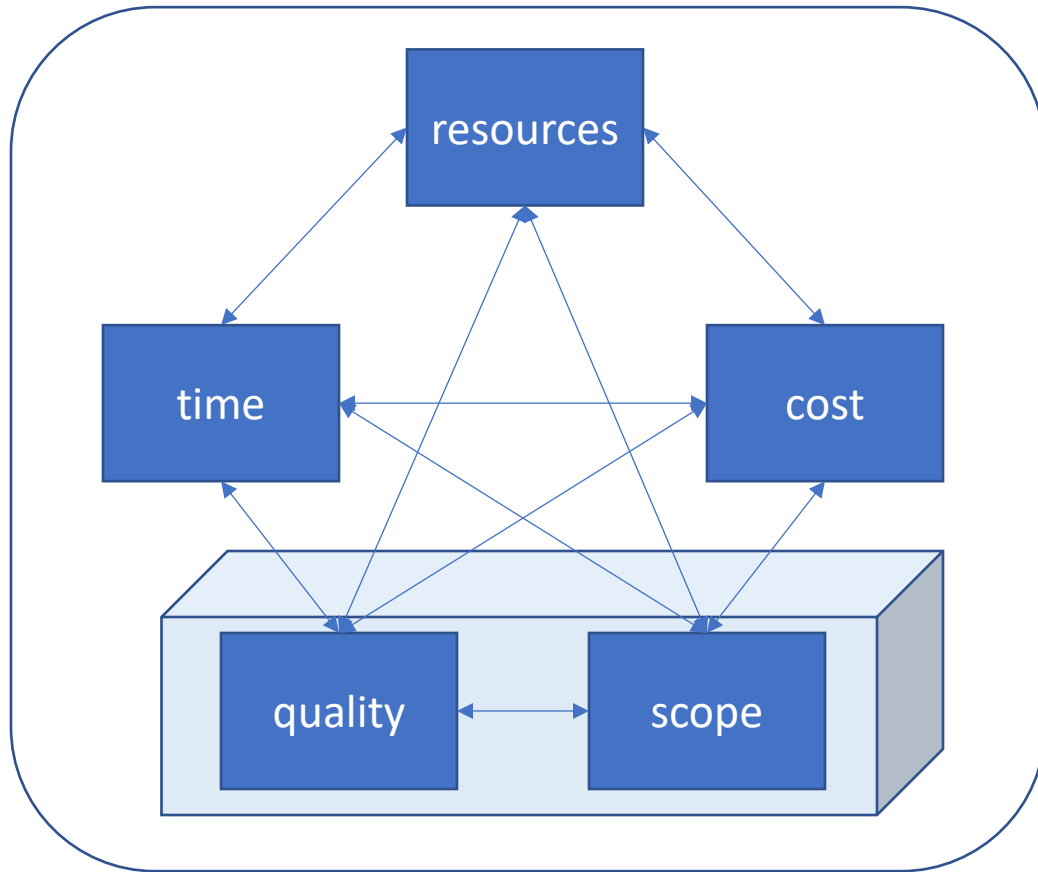
Five Project elements



You need to manage and control:

- Resources – you, your supervisor, other advisors, data, software, hardware...
- Time – you have fixed time, how will you manage it?
- Cost – not applicable here, but will be in future

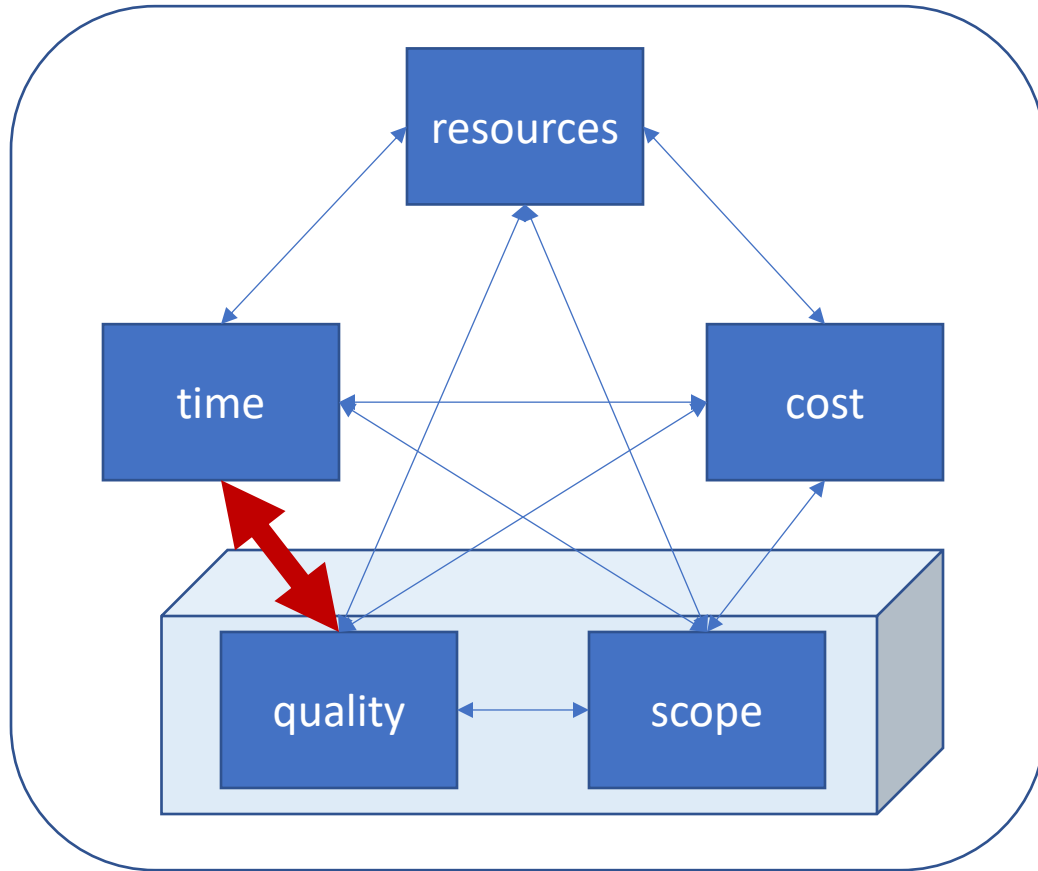
Five Project elements



For your project, and what you might build within it:

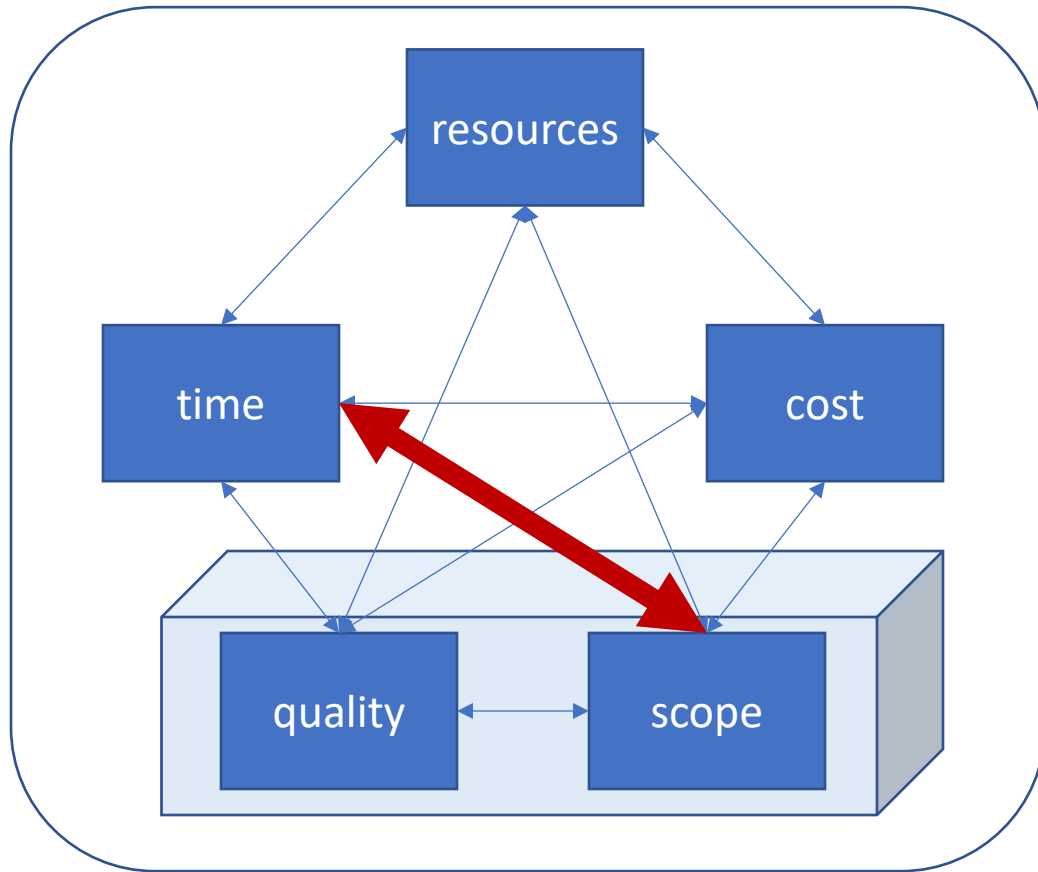
- Quality – how good/advanced are they? The right level for BSc?
- Scope – sufficient breadth? How much have you done? E.g how advanced is your prototype/model/evaluation – functional complexity, resolution of model, comprehensiveness of evaluation

Time vs. Quality



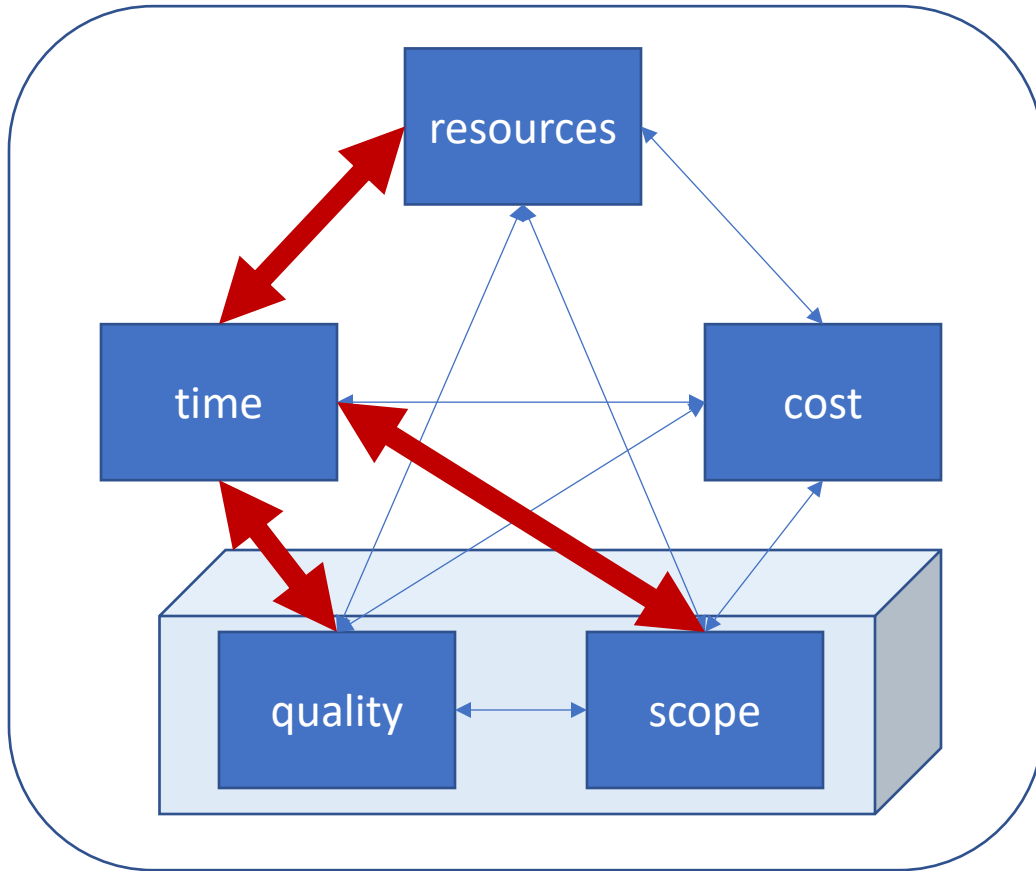
- Reduce time required by lowering quality
 - Increase quality by taking longer
- BUT: you only have fixed time

Scope vs. Quality



- Reduce time required by not covering so much
 - Increase scope by taking longer
- BUT: you only have fixed time

Resources (you) vs. Time, Quality and Scope



- Only fixed time available
- SO – improve your time management, work more efficiently
- Thereby improve/attain quality
- Thereby improve/attain scope

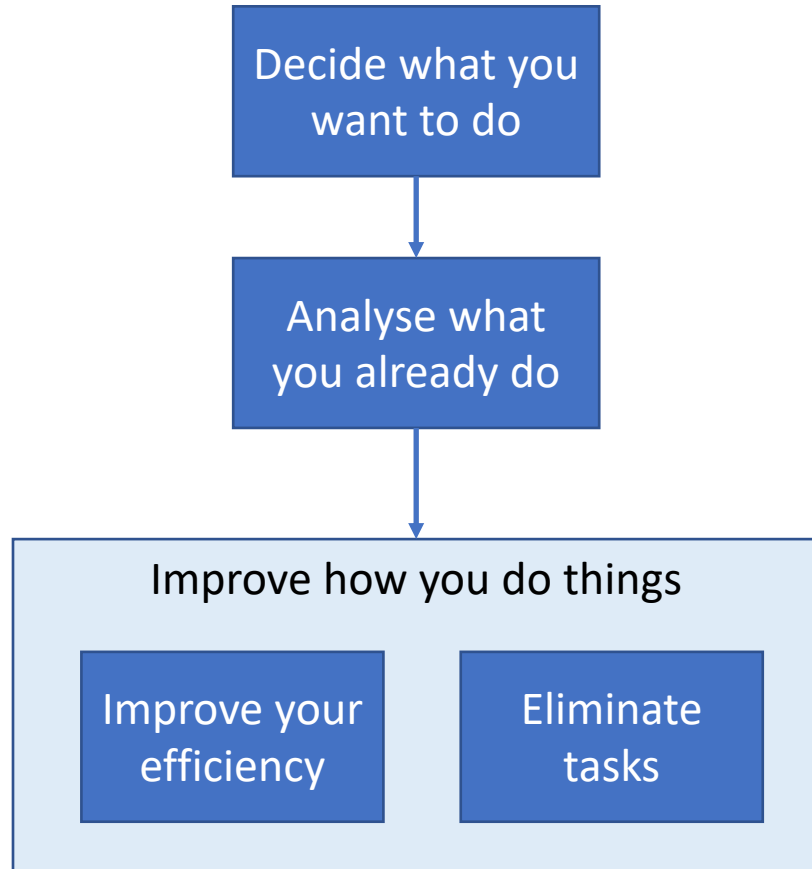
Managing your time

- **Essential** time – to stay well: sleep, eat, exercise, socialise...
- Remaining **serviceable** time – to get things (your project) done
- How do you manage your (serviceable) time?

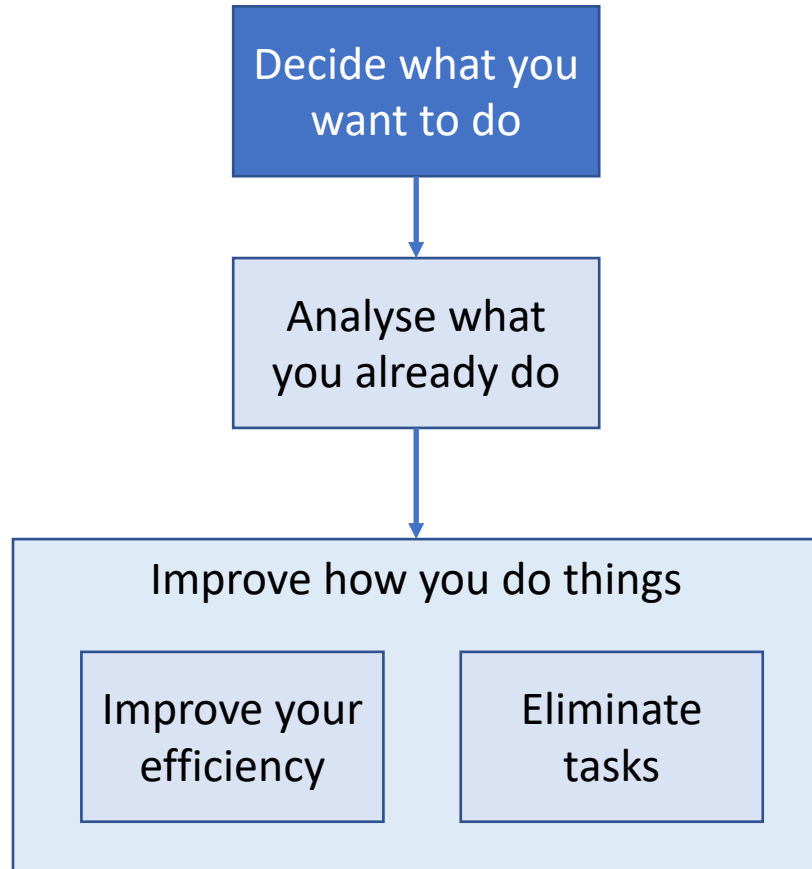
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A time management process

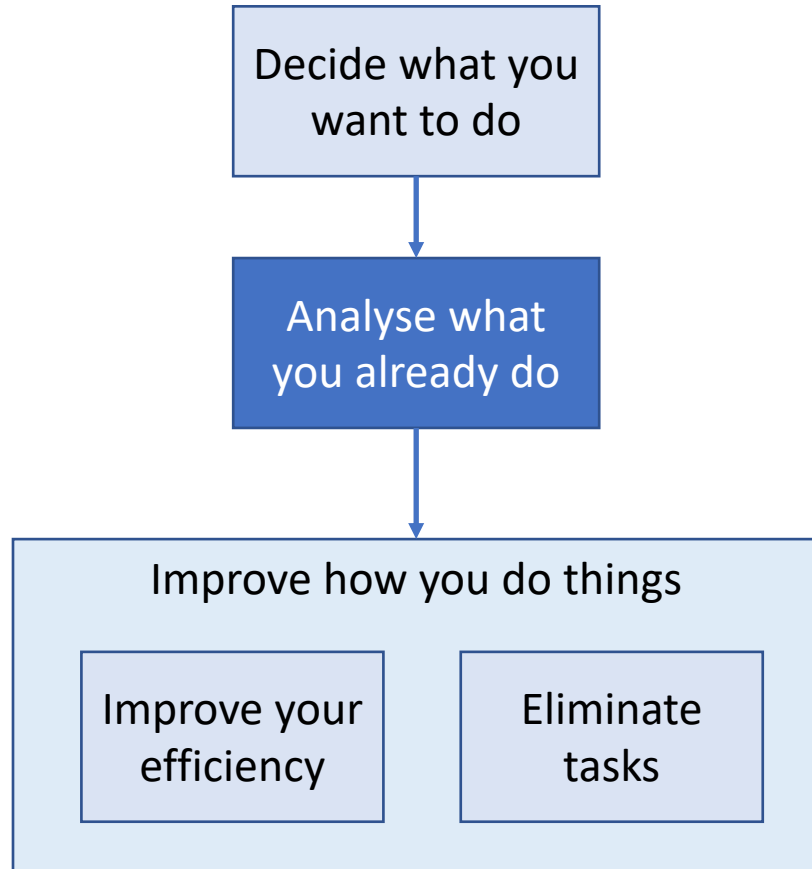


Decide what you want to do



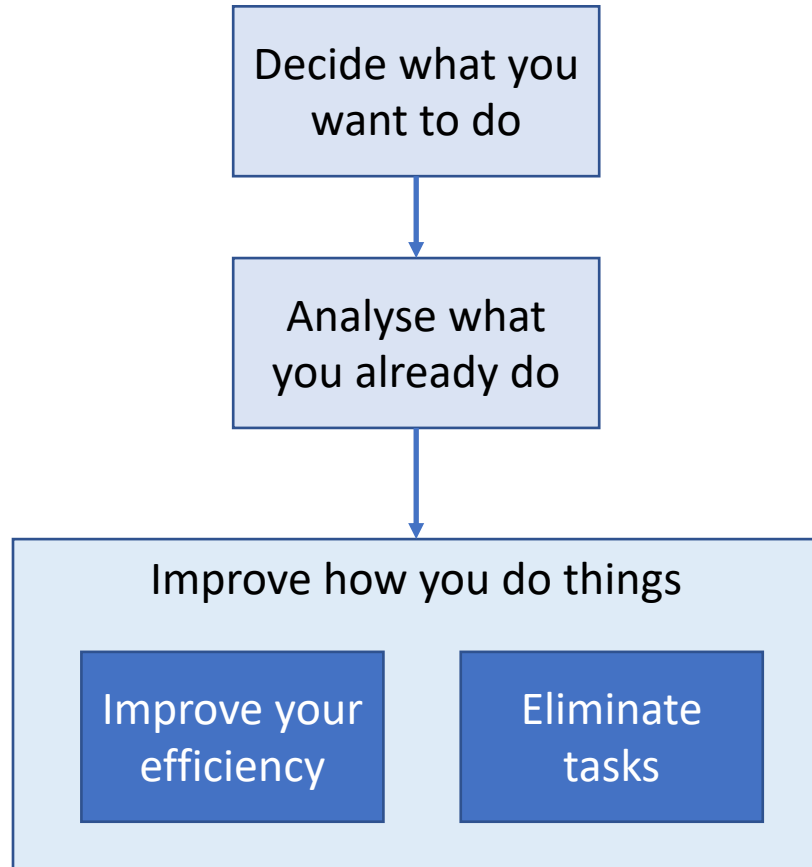
- Work goals
 - Your project's aims and objectives, workplan
 - Importance and urgency
- Don't forget personal goals (self, family, community)

Analyse (reflect on) what you already do



- How do you structure your day?
- How much time do you spend on different types of activities?
- When do you tackle urgent and important tasks?
- Perhaps keep a time log of your activities (Dawson, pp172-174)
- When (where and how) do you work most effectively?

Improve how you do things



- Eliminate what you don't need to do (now, ever)
 - (Delegate to someone else)
 - Ditch
- Be more efficient at doing what you do have to do

| | Important | Unimportant |
|------------|--|------------------------------------|
| Urgent | High priority. Must do. | Minimise such tasks. |
| Non-urgent | Don't ignore. Schedule to do. May become urgent. | Abandon or 'bottom of the list' |

Using your time more efficiently

- Dealing with procrastination
 - Remind yourself why you're doing this – your motivation
 - Subdivide into manageable tasks
 - Reward yourself once task complete
- Use 'grains of time' – easy, simple tasks in between times
- Finish tasks!
- Reduce interruptions – hide away (physically, virtually – email, messaging etc. ...)
- Don't be a perfectionist – good enough is GOOD enough.
- Take breaks
- Be organised – use the tools that work for you

Working with your supervisor

Your expectations of your supervisor:

- To read your work in advance
- To be available when needed
- To be approachable, open, and supportive
- To be constructively critical
- To have good knowledge:
 - Of conducting computing projects
 - Relevant to your project topic (or be able to refer you elsewhere)

Your supervisor's expectations of you:

- To arrange regular meetings
- To maintain a regular work pattern
- To discuss progress and problems fully (and honestly)
- To be independent
- To take account of advice
- To send suitably developed work for feedback

Using your supervisor effectively

Academic staff are busy. So, maximise the time you have together by:

- Preparing for your meetings – notes from previous meetings, an agenda:
 - Progress made
 - Problems encountered
 - ‘Discoveries’ – new tools/papers/data, people met and expertise shared
 - Plans for what next, even if tentative
- Making notes during meetings (Zoom or Teams recording?)
- Know when you’ll next meet
- Follow the advice
 - Your supervisor has experience and expertise
 - It is often worth trying something, even if you discount it later

Your Supervisor will not ...

- Design, test or debug your products
- Write sections of your dissertation for you
- Teach any background material
 - It is up to you to research relevant material
- Remind you to attend meetings

Reminder - what your project should achieve

- **Your Capstone** demonstration of your interests, skills and abilities
- **Independence** – at last you are in charge (scary, but exciting)
 - Employers will rely on you to work independently and will expect you to exercise independent judgement.
- **Thinking** – you will be more critical in the way you look at information and literature
- **Learning** – you will be able to find things out for yourself and you will develop your abilities through professional channels
- **Technical Skills**, from organising your project to the core computer science within it
- **Personal Skills**, including communication and time management.



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Problems you might face, and what to do about them

- Losing momentum, confidence or motivation
- Personal problems
- Hardware failure
- Data availability
- Participant availability (users, evaluators, collaborators)
- Disappointing results
- Scope (feature) creep
- Refocus your motivation, **fine tune** to interests, resources
- Talk to someone (personal tutor, supervisor). People and processes to help.
- Back-up data often, have alternative tech/data/participants
- Allow time to repeat. Unexpected or negative results are still results.
- Remember **good enough**. Aim is your project, not your product.

Simon's Tips

- Do your rocks first (or the sand will take over)
<https://youtu.be/v5ZvL4as2y0>
- Do something, however small – progress is progress
- Tick off your tasks, recognise your progress
- When you are done, stop
- Take breaks, even when you are busy
- Doing something different often gets you unstuck

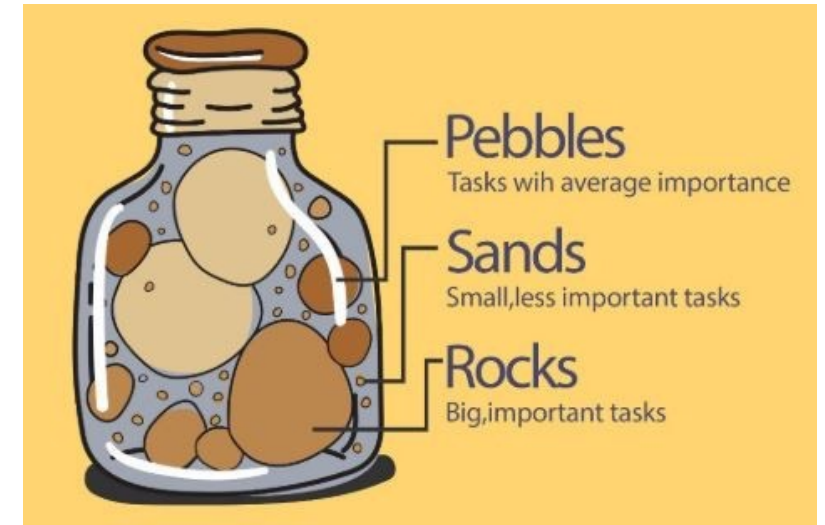


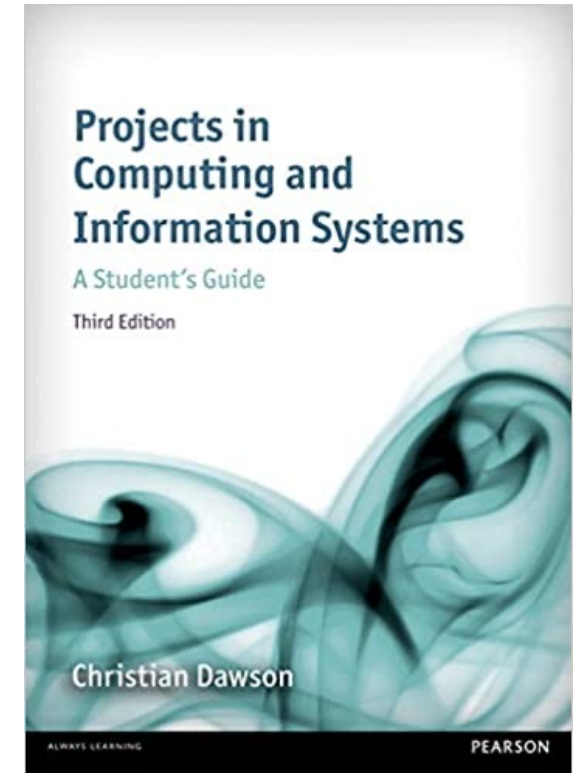
Illustration from [this web page](#)

John's Tips

- Keep in touch with your supervisor
 - Even if you haven't made progress – stay in contact anyway
- Start writing early
 - Don't let your dissertation become a burden – get something started
 - Get feedback on a page or two of text – identify and correct problems before they get repeated through your dissertation.
- Try to stay ahead of your plan – it will do wonders for your confidence.

Further Reading

Dawson, (2015) Projects in Computing and Information Systems: Chapter 7



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