



# Course Introduction



[Kjell Are Refsvik](#)



August 24, 2011



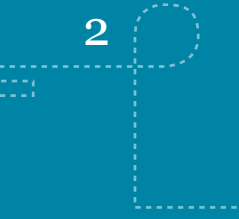
[IMT4892 Digital Workflow](#)



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<http://www.ansatt.hig.no/kjellr/imt4892>



# Welcome!

: - )



GJØVIK UNIVERSITY COLLEGE



# WHERE WE ARE NOW



WEEK	TOPIC
33	-
34	Course Introduction
35	<a href="#">A Brief History of Computing</a>
36	<a href="#">Devices and data formats, wrappers and compressors</a>
37	<a href="#">Tools for transforming common datatypes</a>
38	<a href="#">Moving data, remote processing and workflow automation</a>
39	<a href="#">Workflow automation</a>
40	<a href="#">Intellectual property rights (IPR), including Creative Commons</a>
41	<a href="#">Mashup fundamentals and applied mashup using KML and Google Maps</a>
42	<a href="#">XML Fundamentals, part 1</a>
43	<a href="#">XML Fundamentals, part 2</a>
44	<a href="#">Academic planning and writing</a>
45	<a href="#">Project, week 1 - project outline delivery</a>
46	<a href="#">Project, week 2 - work</a>
47	<a href="#">Project delivery/presentation</a>
48	<a href="#">Reading week before the exam</a>
49	<a href="#">Exam</a>

## © TODAY'S GOAL









- What are the course methods and means?
- What is the course goal?
- What [tech.] resources do you need to get hold of to begin this course?



# ME

1992-1993	Research assistant, IT [satellite imagery, programming, UNIX]	hiof.no
1993-1994	IT-Consultant [comms., www, mac, email]	hil.no/it
1994-2008	Multimedia Producer / Project Manager	hil.no/sell
2005-2008	Regional IT-Advisor, primary education	uninettabc.no
2006-2009	M.Sc. [Information Technology - Designing Digital Environments]	hiof.no
2009-	Assistant Professor [Media tech., Media design and Media production]	hig.no/imt

# YOU?

 Medina, Victor	MMT-CIMET2010-Høst	victor.medina@hig.no
 Mehmood, Muhammad Owais	MMT-CIMET2010-Høst	muhammad.mehmood@hig.no
 Neverova, Natalia	MMT-CIMET2010-Høst	natalia.neverova@hig.no
 Oncu Feier, Alexandra Ioana	MMT-CIMET2010-Høst	alexandra.feier@hig.no
 Azarijafari, Parinaz	MMT2011-Høst	parinaz.azarijafari@hig.no
 Liu, Xinwei	MMT2011-Høst	xinwei.liu@hig.no
 Yushtina, Anna	MMT2011-Høst	anna.yushtina@hig.no
 Hrdy, Ondrej	UTVEKSL-M2011-Høst	ondrej.hrdy@hig.no

# YOU

- Name?
- Where do you come from?
- Got your own laptop/desktop?
- Background in computing
- What's in your toolbox (os, tools, devices)?
- Expectations - hig | master thesis | this course
- Plans for the future?

# METHODS AND STYLE

- Distribution outside and inside frontier (accessibility)
- Record and podcast lecture recordings (accessibility)
- Open systems, tools, standards and formats (accessibility)
- Lectures: Would like seminars rather than monologues



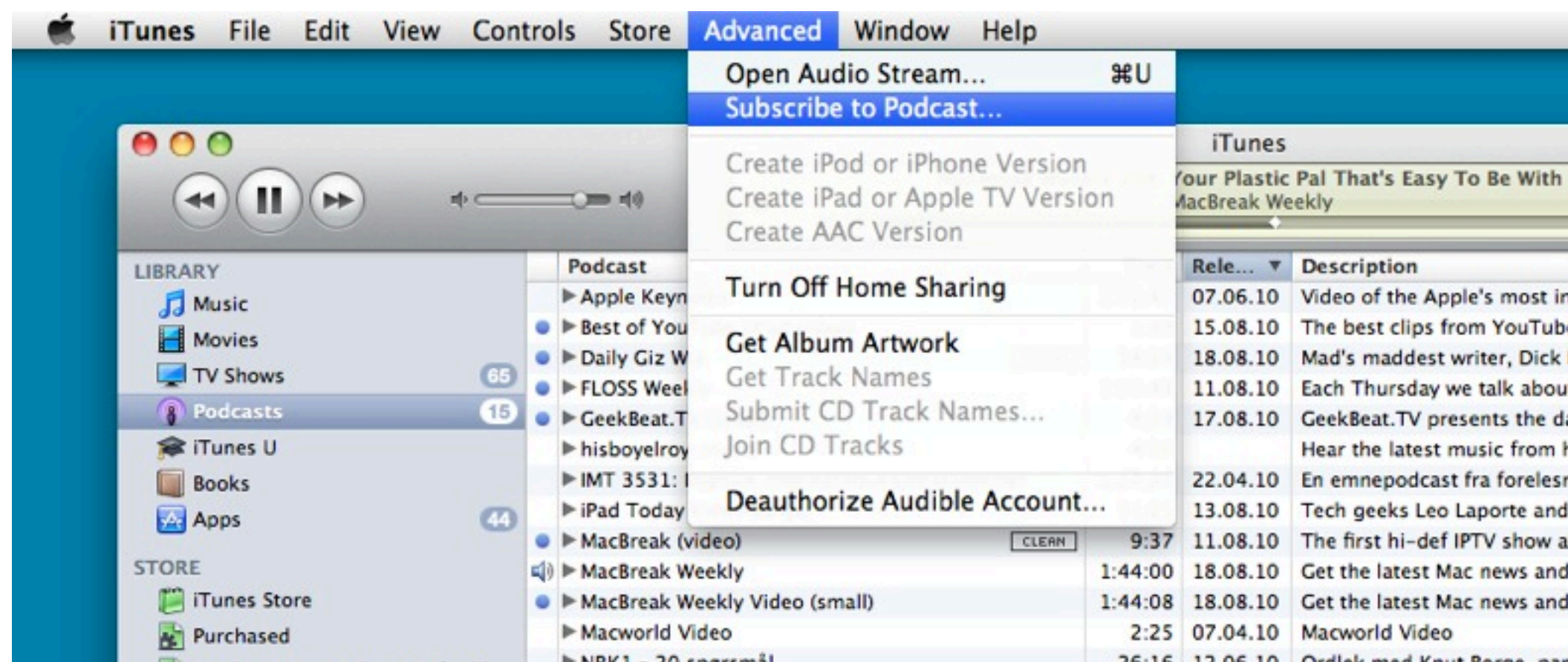
# LECTURES



4892.rss

# LECTURE SUBSCRIPTION AND PLAYBACK

- RSS reader (Google Reader, iTunes, ...)
- Files can also be copied to your mobile device and watched there if they support open standards including MPEG4/AAC/H.264



# COURSE CONTENT

XML

IPR

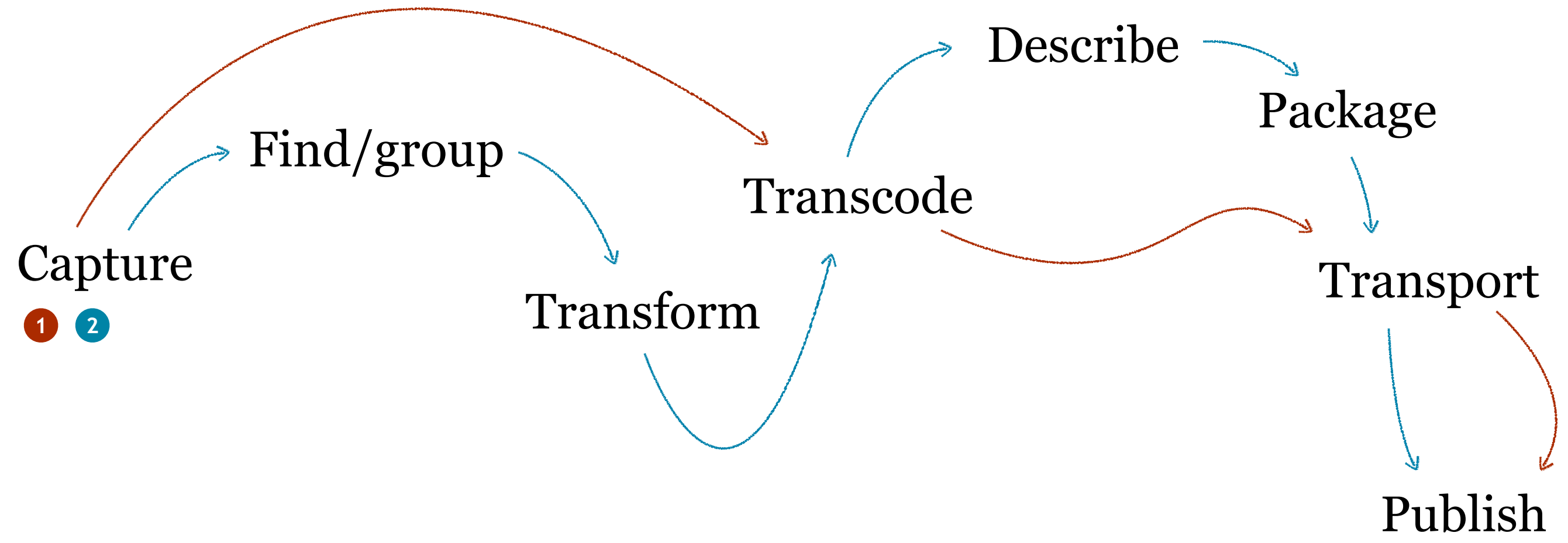
Formalising and  
implementing digital  
workflows with UNIX and  
open source tools

Metadata

Computer History  
and UNIX

Academic writing using  
LaTeX and BibTeX

# IMAGES



# WORKFLOW

*“A workflow consists of a sequence of connected steps. It is a depiction of a sequence of operations, declared as work of a person, a group of persons,[1] an organization of staff, or one or more simple or complex mechanisms.*

*Workflow may be seen as any abstraction of real work. For control purposes, workflow may be a view on real work under a chosen aspect,[2] thus serving as a virtual representation of actual work. The flow being described may refer to a document or product that is being transferred from one step to another.”*

- Wikipedia, Aug. 2011

# WORKFLOW - IMPORTANT QUESTIONS

- What systems and programs do we use as digital workers?
- Do the systems and programs we use lend themselves well to all contexts?
- Are the tools and methods we use sustainable?
- Do we select tools that work well together?
- Do we have to re-invest in learning new tools
- Investing [heavily] in learning tools/systems now that you may benefit from later?

# SCENARIO

*“These 8000 images needs a custom watermark, a size reduction and needs to be online at this URL before lunch...”*

# LAB WORK

- I will be there to ask tech questions
- You may send me mail with tech questions as well
- Also - help eachother with tech issues. The one helping ends up learning just as much as the one getting help.



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# ASSIGNMENTS

- I will give small assignments (not mandatory)
- I will ask you to show off your work in front of the other students
  - Training your presentation skills
  - Pushing you to deliver
- We will base most of our examples and small exercises around color images

# TOOLBOX

**gnuplot**

**ffmpeg**

**imagemagick**

**gpsbabel**

**exiftool**

**latex**

**bibtex**



**sed**

**awk**

**grep**

**find**

**ssh**

**scp**

**sftp**

**cp**

**mv**

**cut**

# PROJECT AT THE END OF THIS COURSE

- Mini project where you need to outline what you want, and then try to deliver
- Will include writing your (perhaps?) first referenced academic document
- We suggest the use of LaTeX/BibTeX and a good editor to do the work

# UNIX?

- 1. Your Own laptop running
  - PC: UBUNTU
  - Mac: Mac OS X BSD
- 2. Access stan.hig.no through a terminal window (i.e. PuTTY)
- 3. Borrow a Mac in A211 Mac lab

# SETTING UP UNIX ON YOUR MACHINES

- Helping each other out using Social Media
  - Twitter: #imt4892 (open, fast, unencumbered)
  - G+?
- Because by helping others you will help yourself learn better and more



## INFORMATION

- Elect class representatives (MMT and CIMET) and report names to Rune Hjelsvold (Vice Dean). [Rune.hjelsvold@hig.no](mailto:Rune.hjelsvold@hig.no)
- Not much work
- Great learning experience



## ASSIGNMENTS

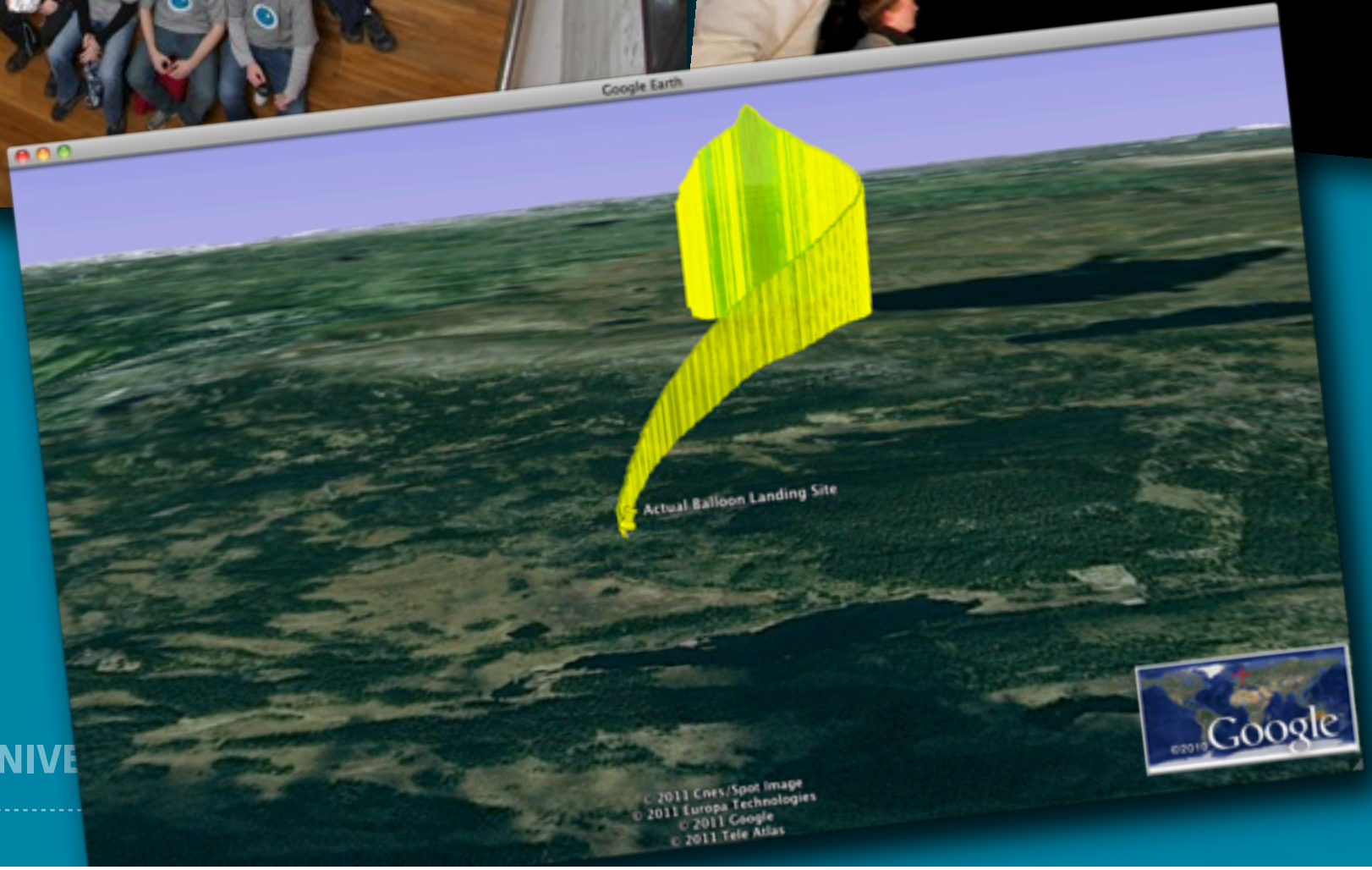
1. Buy the books
2. Start reading the first chapter in all of the books
3. Get access to a UNIX system
4. Start thinking about a project to do later in this course
5. Get hold of an RSS-reader and subscribe to the lecture feed:  
(<feed://www.ansatt.hig.no/kjellr/imt4892/imt4892.rss>)
6. E-mail me your student number so that we can generate UNIX logins for you on [stan.hig.no](http://stan.hig.no)
7. Form a social network around the course and help each other!

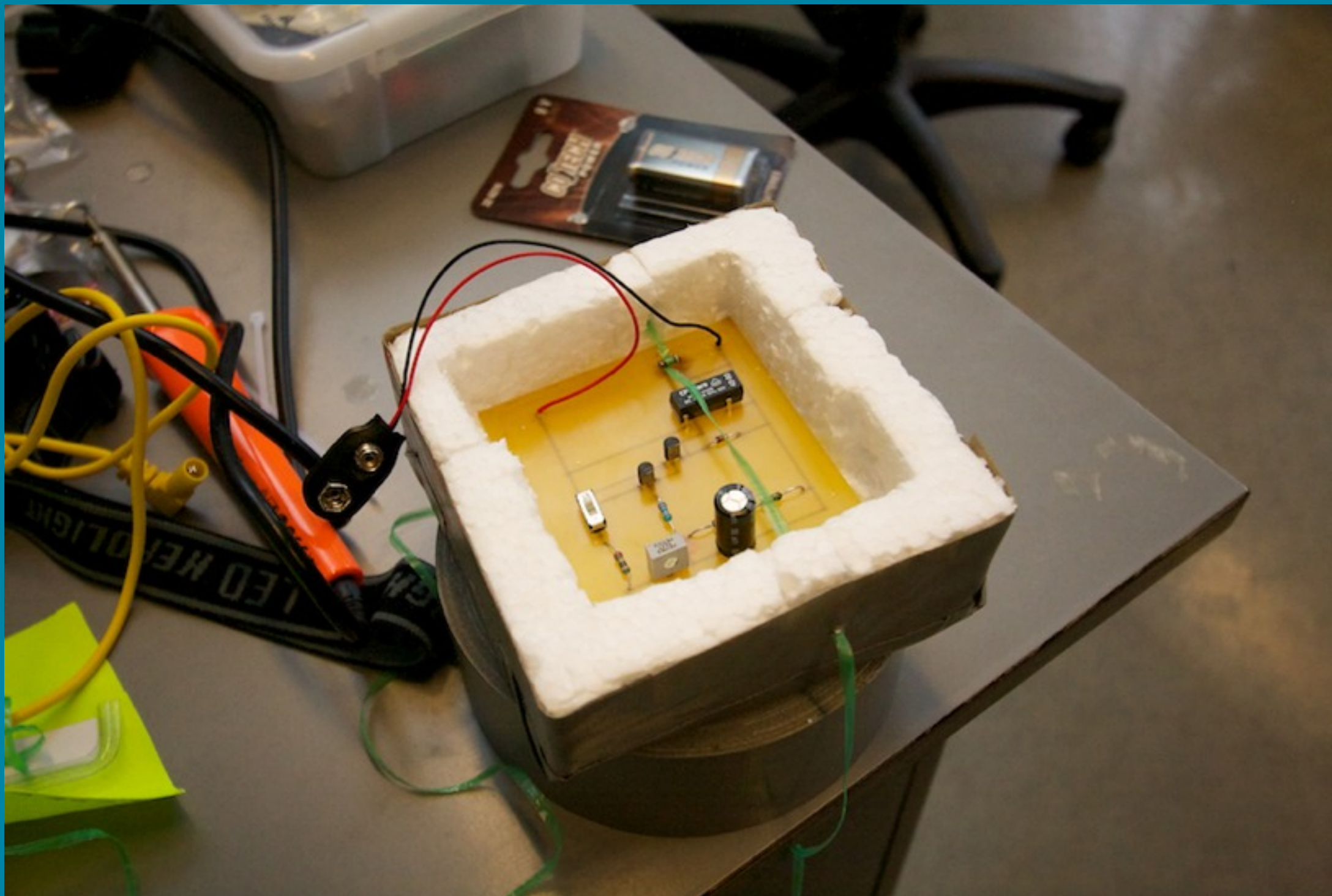


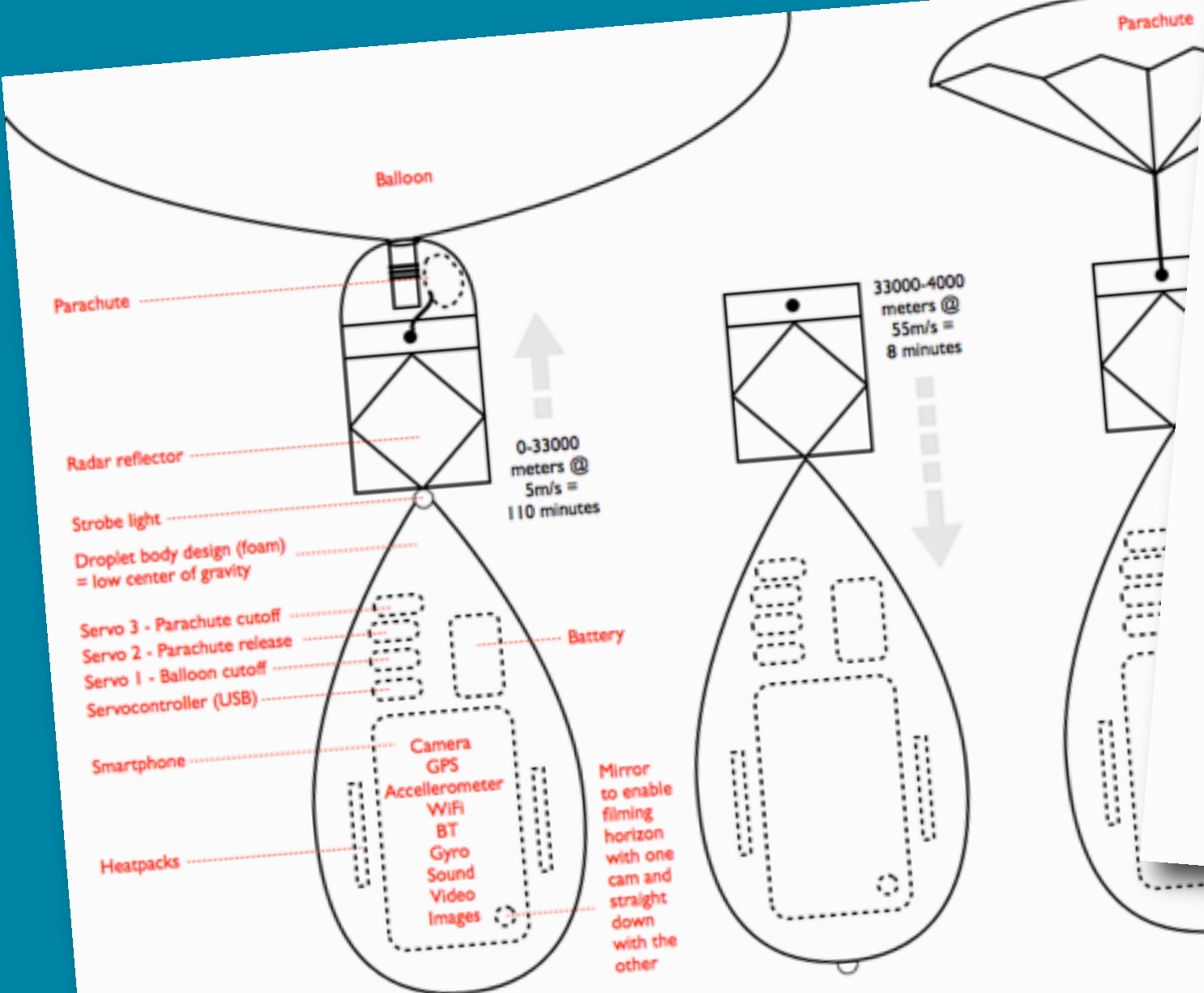
# ONE MORE THING...



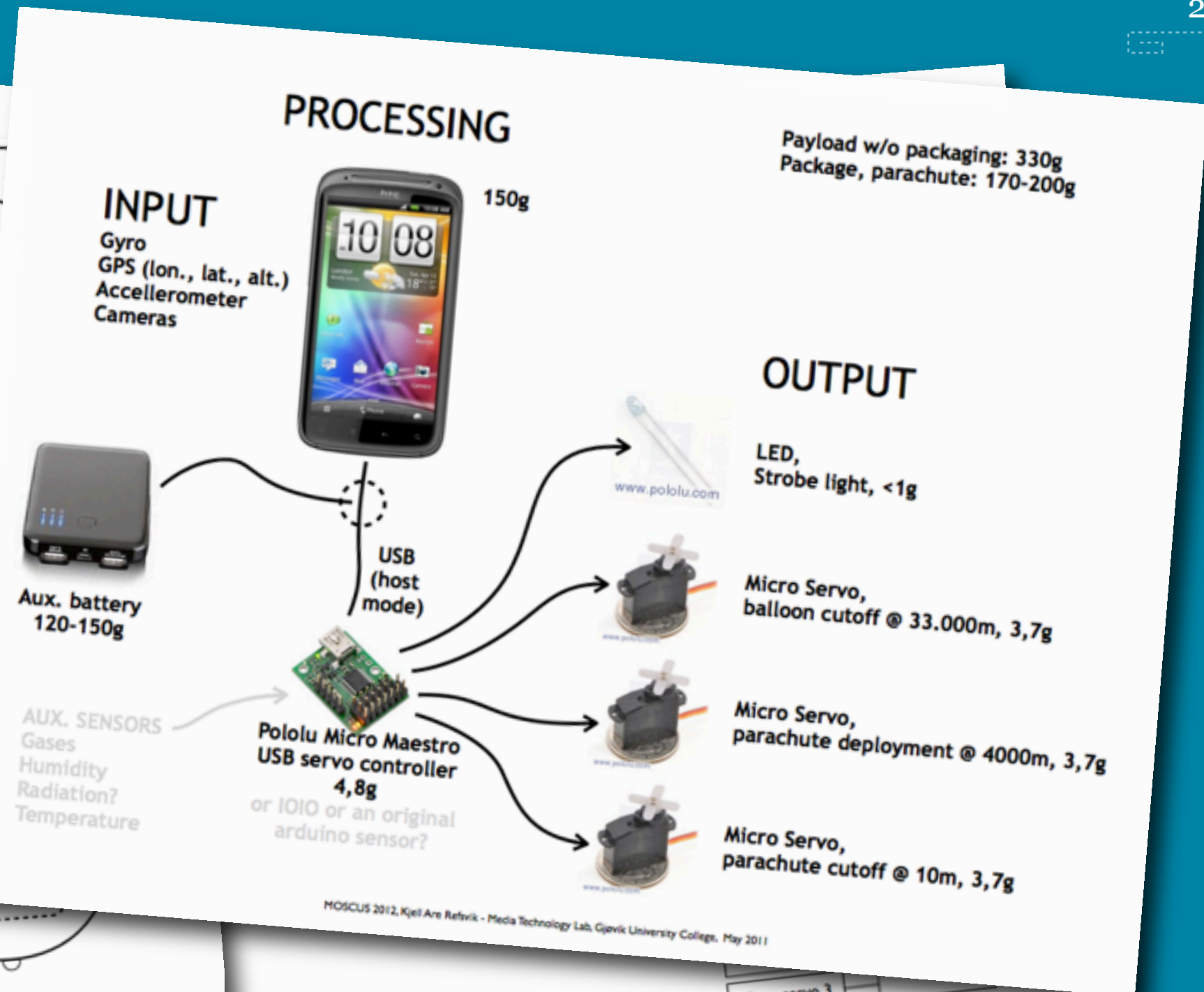
# Mobile Solutions and Data Collection in the Upper Atmosphere







MOSCUS 2012, Kjell Are Refvik - Media Technology Lab, Gjøvik University College, May 2011



MOSCUS 2012, Kjell Are Refvik - Media Technology Lab, Gjøvik University College, May 2011

# MOSCUS 2012

- Need a group of students interested in mobile phones, RC toys and programming for an extra curriculum activity
- I have parts, a smartphone, experiences from 2011 and plans for 2012
- Task: build and test a hardware platform for a near space instrument package based around an Android phone.

<http://www.ansatt.hig.no/kjellr/projects/moscus/>



## CONTACT INFORMATION

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