Seminar: Entwicklungsprozess von Software-Produktlinien

Presentations

Sandro Schulze
(mostly based on material by Graham Horton)

WiSe 2012/2013
Final Presentations

- 22./29.01.2013, 9 a.m. to 1 p.m., room 358
- 20 min Presentation
- 10 min Question & Answers

- Finish late: cut off
- Finish early: more questions

- 3 Presentations per session
  - Agree on one notebook or prepare/practice to switch
Preparation

- Prepare for a talk!
- Preparation takes time (20x time of actual presentation)
- Do not prepare slides the evening before!
Presenting Scientific Results

- Before writing a paper
  - Present ideas to colleagues for discussion
  - Put your ideas into order
  - Think about visualizations
- After writing a paper
  - Presenting an accepted paper at a workshop or conference
  - Give a rough overview: Problem, Solution, Evaluation
  - Convince audience to read the paper
  - Initiate a discussion (workshop)
- Paper and presentation often do not perfectly align
- (Lecture != Presentation)
Prepare for a very large room
Workshop Room
What makes a successful presentation?

- **Facts**
  - Content
  - Structure
  - Cohesion / line of thoughts

- **Visuals**
  - Design of slides
  - Visualizations

- **Appearance**
  - Body language
  - Language
  - Subjective impression
Structure
Goals

• Every presentation has a goal
• Every presentation has several tasks

• Answer these questions first:
  • What is my goal?
  • What is my main point?
  • Why should the audience listen?
  • Why is the topic interesting?
  • Who will benefit from this presentation?
Structure

• Beginning: Connect to audience
  • Introduce yourself
  • Motivate your topic (why should they listen?)
  • Executive summary (main points, main results)
  • (Calm down)
• Middle: Convey information
  • Facts, Arguments, Results, Discussion
• End: Take home message
  • Summarize main points
  • Emphasize consequences
  • Future work
Beginning

• What is the general problem?
• What is the specific problem?
• Why is this problem interesting?
• Which question(s) to answer?
• (State of the art)
• How to proceed and why?
• Goals and tasks?
Middle

- What background knowledge is necessary?
- Which problems need to be solved?
- Which decisions to make?
- Which assumptions/simplifications and why?
- Experiments
- Results
- Interpretation
- Does this answer my hypothesis?
End

• What was the main result?
• How general are these results? (threats to validity)
• What are the consequences?
• What remains open? Which new questions arose? Future work?
• Thank for attention
Typical problems

- Too quick introduction
- Problem remains unclear
- Consequences / results unclear
- Too much “what I did”
- Too little “why did I do this (each step)”
- Too little “what’s the point”
- No connection between thoughts / slides
- Missing cohesion
Technical Hints

• 20 min, about 7 to 15 slides
• Fontsize $\geq 18$, sans-serif fonts (this is 22)
• Name, title and affiliation on every slide
• Slides number on every slide
• At most one topic per slide
• Visualization, colors where necessary
• Avoid overfull slides (> 7 objects or > 36 words)
• Avoid full sentences, instead summarize content using headwords.
Structure slide?

- Only if you have something to say
- Maybe only after motivation slides

**Agenda**

- Problems and Advantages of Preprocessors
- 4 Improvements
  - Views
  - Visual Representation
  - Disciplined Annotations
  - Product-Line-Aware Type System
- Summary and Perspective
Visualizations

Ein Bild verwirrt mehr als Tausend Worte....oder doch nicht?
Visualizations

- Assists memory
- Assists comprehension
- Emphasizes the content
- More accessible style

- If
  - Meaning is clear
  - Visualized content is correct
  - Text is readable
Different kinds of visualizations

- Diagrams
- Photos
- Clip-arts
- …
- A microprocessor consists of X, Y and Z…
Animation

• Use animation with care

• Use
  • to focus attention (~ laser pointer)
  • to visualize a process / several steps

• Do not use without specific purpose
Animation: Die Todsünde

Punkt 1  Blah blah blah blah blah blah
  - Punkt 1–1  Blah blah blah blah blah blah
  - Punkt 1–2  Blah blah blah blah blah blah

Punkt 2  Blah blah blah blah blah blah
  - Punkt 2–1  Blah blah blah blah blah blah
  - Punkt 2–2  Blah blah blah blah blah blah

Punkt 3  Blah blah blah blah blah blah
Abläufe visualisieren

- Erklärung eines Warteschlangensystems:

Bank

Warteschlange

Kasse
Aufmerksamkeit lenken
Checklist for visualizations

- Can text be replaced by visualizations?
- Is the meaning clear?
- Are the facts correct?
- All texts and details readable?
- No unnecessary or misleading elements?
- Does it help comprehension?
Presentation
Communication

- You cannot not communicate

conscious level

unconscious level

Information

Body language

Personality

Appearance

Feelings
Where to stand

• Facing the audience
• Not too far away

• Don’t hide the projected image
• Don’t hide behind furniture
Posture

- Upright
- Open
- Relaxed
- Stable
Movement

• Don’t fidget
• Emphasize thoughts with gestures and facial expressions
• Calm, but not fixed
Eyes

• Look at the audience
• Try to look at everybody naturally
• Do not stare at screen/window/corner/floor
Voice / Language

- Slow enough
- Loud enough
- Clear pronunciation
- Enough pauses
- Avoid monotony

- Keep sentences simple
- Don’t read
Timing

• Practice timing
• If faster when nervous plan ahead
• Have a timer during presentation
• Check speed during presentation

• Practice fast and slow version of last 3 slides (maybe have an extra slide you might skip)
Some Last Tips

• Always be prepared
  • Have a PDF version of your slides
  • On at least 2 USB sticks & internet
  • Prepare presentation before the session, usually only one laptop
• Laser pointer hard to see in large rooms -> animations instead
• No dress code in computer science conferences
• Practice timing and phrasing!
Feedback & Grading

- 5 Criteria
  - Motivation and goals clear?
  - Content (structure, cohesion, clarity, conclusion?)
  - Slides (amount, style, visualizations)
  - Presentation & body language
  - Clarity (understandable, slang, missing background information)
- Feedback sheet for everybody
Take-away slide

• Prepare for a presentation

• Make goals and motivation crystal clear

• Careful slide layout with visualizations where suitable

• Calm and focused presentation