

# The Future of Software – and of our Profession

Seminar Day **2**: Friday, July 11, 2014



## **Introduction:**

1. Time Management
2. Focus
3. Reviewer Ethics
4. Copyrights/Citations
5. Bullet Point Lists 😞

## Time Management (1/2):

**Keep your time – never overrun your assigned slot!**

### Bad solutions:

- Talking faster
- Skipping slides at the end

1. Planning: Maximum 1 Slide/Minute

2. Dry run: Do a realistic presentation

3. Planning: Have planned (!) buffer-slides



<http://www.youtube.com/watch?v=jd-9PmX8B8>

## Time Management (2/2):

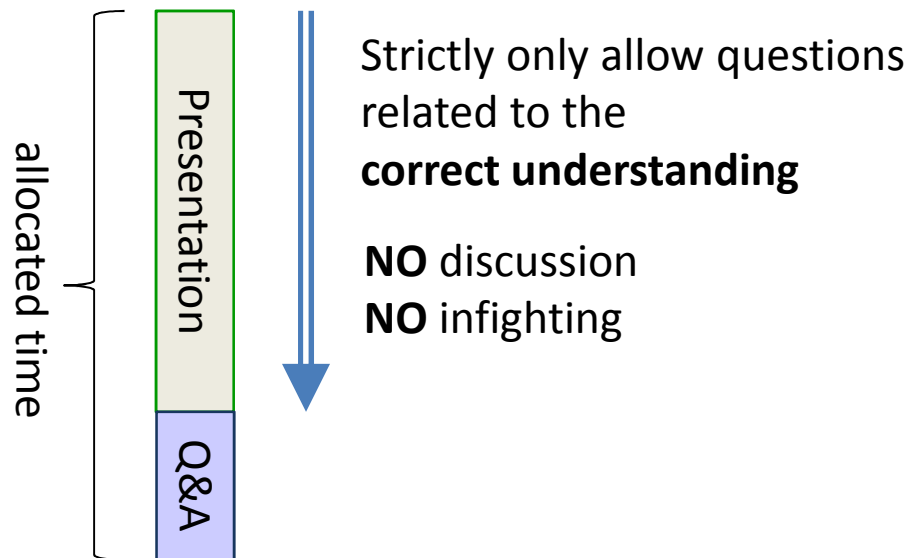
**Keep your time – never overrun your assigned slot!**

### CAUTION:

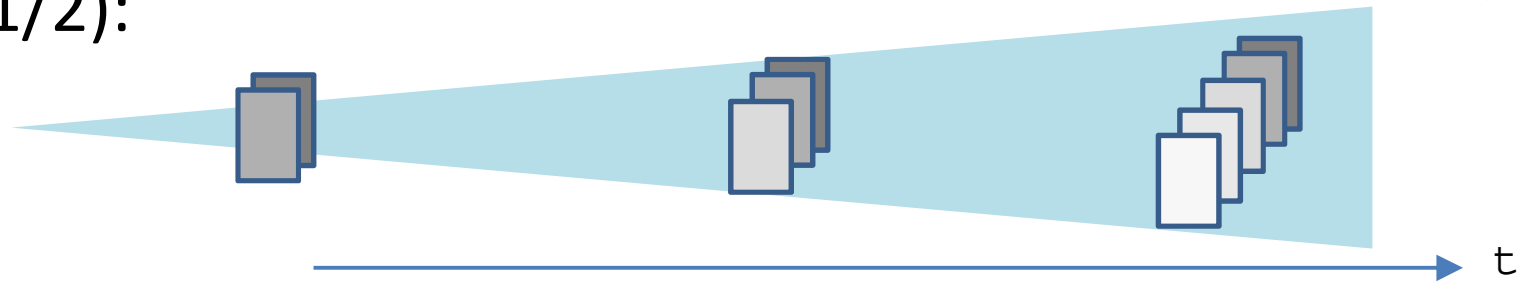
- You may be delayed by questions!

### 4. Buffer-slides:

≈ 10% of total talk time



Focus (1/2):



| Key statements                                 | Where and how communicated in the paper | Clarity & impact satisfactory? |
|--|---|--------------------------------|
| <u>Primary</u> key statement:                  |   |                                |
| <u>1<sup>st</sup> secondary</u> key statement: |   |                                |
| <u>2<sup>nd</sup> secondary</u> key statement: |   |                                |
| <u>3<sup>rd</sup> secondary</u> key statement: |   |                                |
| ... is more adequate?                          |   |                                |

## Focus (2/2):

| Concept (Begriff)           | Really necessary for the storyline of the paper? |
|-----------------------------|--|
| <u>Concept (Begriff) 1:</u> |  |
| <u>Concept (Begriff) 2:</u> |  |
| <u>Concept (Begriff) 3:</u> |  |
| <u>Concept (Begriff) 4:</u> |  |
| ... etc.                    |  |

## Journal Review Template:

|  | NO | possibly | YES | Comments  |
|--|----|----------|-----|---|
| Is the paper a new, original contribution to the «Challenges and Impact of Software in 2025?»  |    |          | √   | Estimation of the impact of modern search engines on work and life in 2025. Very original ideas and challenging storyline |
| If the reply to the question above is positive, is the paper of sufficiently wide interest to merit publication in an international journal? |    |          | √   |   |
| Is the paper technically sound and free of errors of fact or logic?  |    |          | √   | Excellent storyline, impressive conclusions   |
| Are the objectives clear?  |    |          | √   | Explicitly stated and fully delivered   |
| Is the material clearly presented?   |    |          | √   |   |

Irene Hames: **Peer Review and Manuscript Management in Scientific Journals – Guidelines for Good Practice**. BLACKWELL Publishing, Oxford, UK, 2008. ISBN 978-1-4051-3159-9



## Reviewer Ethics (1/2):

### Reviewers should:

- ✓ Decline any review for which they feel not > 95% fit for (competence, time, ...)
- ✓ Decline any review if there is a conflict of interest (similar work, ...)
- ✓ Provide timely reviews (... otherwise the journal editor is in trouble ☹)
- ✓ Keep manuscript and names of authors confidential
- ✓ Provide a fair, substantiated, comprehensive review
- ✓ Deliver comprehensive, useful recommendations to author(s) and editor
- ✓ Report any suspicion of misconduct (illegal or unreferenced copying, ...)

Enumeration → Bullet Point List = ok

Irene Hames: **Peer Review and Manuscript Management in Scientific Journals – Guidelines for Good Practice.**  
Blackwell Publishing, Oxford, UK, 2007. ISBN 978-1-4051-3159-9



## Reviewer Ethics (2/2):

### Reviewers should NOT:

- ✓ Attack or make any personal comments about the author(s)
- ✓ Agree to review a manuscript just to gain insight of it for personal benefit
- ✓ Use information in the manuscript for their own or other's benefit
- ✓ Contact anyone else with respect to the review
- ✓ Request that authors include citations to their own work
- ✓ Contact the authors directly about any manuscript they review

Irene Hames: **Peer Review and Manuscript Management in Scientific Journals – *Guidelines for Good Practice***.  
Blackwell Publishing, Oxford, UK, 2007. ISBN 978-1-4051-3159-9

<https://www.musicgateway.net>



In some cases it is necessary to state the **copyright**.

- a) The copyright defines the owner of the document or figure and has wide **legal implications**, such as the protection of *intellectual property rights* (of more importance in industry, less in academia).
- b) Giving proper credit (by including the source) is a question of fairness (- but may also have legal implications!)

## Time Management (2/2):

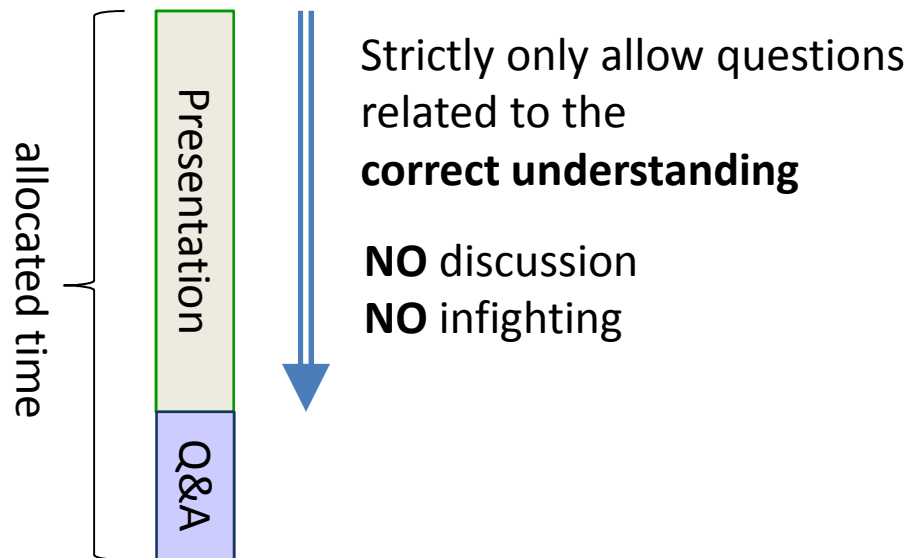
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Blackwell Publishing, Oxford, UK, 2007. ISBN 978-1-4051-3159-9

## Bullet Point Lists:

Presenting a bullet point list on a slide  
and reading it to the audience is boring and tedious



(Bad) example:

### **The tool integration problem:**

- Point-to-point integrations don't scale
  - Creation new integrations is unpredictable
- Monocultures lock you in
  - Past choices restrict present action and future vision
- Maintenance, management, and change costs go up over time
  - Ongoing and unexpected cost drain resources

# Challenges and Impact of Software in 2025

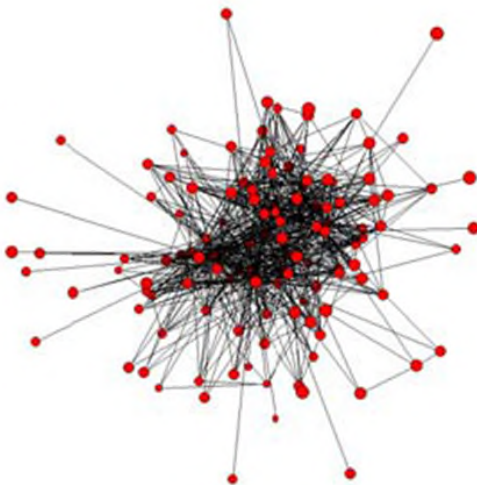
Bullet Point 1:

Point-to-point  
integrations  
don't scale

Monocultures  
lock  
you in

Maintenance,  
management, and change  
cost go up over time

<http://www.orie.cornell.edu>



Creating new  
integrations  
is unpredictable

<http://www.npr.org>



Past choices  
restrict present action  
and future vision

<http://hordagar.com>



Ongoing and  
unexpected cost  
drain resources

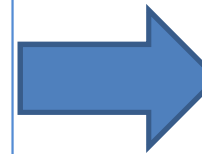
### **Cognitive Computing:**

- **Cognitive technologies help us to understand and manage complexity**
  - Cognitive technologies help us to understand the world around us and to make better decisions and live more successfully and sustainably
- **Cognitive computing is a new area and will transform the way we live and work just as the computing revolution has transformed the human landscape over the past half century**
  - The creation of the new era «cognitive computing» is a monumental endeavour, which needs the effort of companies, universities, users, regulators etc.
- **This will become the era of «smart machines» with unprecedented capabilities**
  - Some capabilities are already visible: Winner of chessworld championship, winner of *jeopardy!* etc.



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- **This will become the era of «smart machines» with unprecedented capabilities**
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### Exercise:

Convert to a  
didactically convincing  
pictorial representation

*Optional* return (for comments) to: [frank.j.furrer@bluewin.ch](mailto:frank.j.furrer@bluewin.ch)

### Feedback 2<sup>nd</sup> Round



- + Improved storylines
- + Good state of the art descriptions
- + Better structure
- + Better conclusions

- Paper length (>)
- Some unnecessary concepts introduced
- Some loss of consistency
- Still improvable structure of the papers (titles)

# Presentations

## 2<sup>nd</sup> Seminar Day

### Seminar Day 2: Time Schedule

| Name                  | Presentation (15 min) | Feedback (10 min) |
|-----------------------|-----------------------|-------------------|
| <i>Introduction</i>   | <i>09:00 – 09:30</i>  |                   |
| Schön, Hendrik        | 09:30 – 09:45         | 09:45 – 09:55     |
| Rausch, Jonas         | 09:55 – 10:10         | 10:10 – 10:20     |
| Peschel, Paul         | 10:20 – 10:35         | 10:35 – 10:45     |
| <i>Lehrevaluation</i> | <i>10:45 – 10:55</i>  |                   |
| Break                 | 10:55 – 11:15         |                   |
| Korger, Christina     | 11:15 - 11:30         | 11:30 – 11:40     |
| Gollasch, David       | 11:40 – 11:55         | 11:55 – 12:05     |
| Bierzynski, Kay       | 12:05 – 12:20         | 12:20 – 12:30     |
| Final Words           | 12:30 – 13:00         |                   |

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| Final Words           | 12:30 – 13:00            |                      |

Kilian Koeltzsch  
[ifsr]

# Presentation Assessments

# Challenges and Impact of Software in 2025

## Presentation Assessment Participant: **Schön, Hendrik**

|                                   |  |   |   |
|-----------------------------------|--|---|---|
| <b>Storyline</b>                  | <ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |
| <b>Illustrations<br/>Pictures</b> | <ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |
| <b>Animation</b>                  | <ul style="list-style-type: none"> <li>• Focussed (emphasizing the message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>  | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |
| <b>Density</b>                    | <ul style="list-style-type: none"> <li>• Too dense (per slide or per time unit)</li> <li>• Too slow (more material per slide or per time unit)</li> <li>• Balance of slides</li> <li>• Bullet point lists</li> </ul> | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |
| <b>Delivery</b>                   | <ul style="list-style-type: none"> <li>• Personal style</li> <li>• Interaction with the audience</li> <li>• Complementary speech/illustrations</li> </ul>  | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |



# Challenges and Impact of Software in 2025

## Presentation Assessment Participant: **Rausch, Jonas**

|                                   |  |   |   |
|-----------------------------------|--|---|---|
| <b>Storyline</b>                  | <ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |
| <b>Illustrations<br/>Pictures</b> | <ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |
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# Challenges and Impact of Software in 2025

## Presentation Assessment Participant: **Peschel, Paul**

|                                   |  |   |   |
|-----------------------------------|--|---|---|
| <b>Storyline</b>                  | <ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | √ |
| <b>Illustrations<br/>Pictures</b> | <ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | √ |
| <b>Animation</b>                  | <ul style="list-style-type: none"> <li>• Focussed (emphasizing the message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>  | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | √ |
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| <b>Delivery</b>                   | <ul style="list-style-type: none"> <li>• Personal style</li> <li>• Interaction with the audience</li> <li>• Complementary speech/illustrations</li> </ul>  | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | √ |

# Challenges and Impact of Software in 2025

## Presentation Assessment Participant: **Korger, Christina**

|                                   |  |   |   |
|-----------------------------------|--|---|---|
| <b>Storyline</b>                  | <ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |
| <b>Illustrations<br/>Pictures</b> | <ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |
| <b>Animation</b>                  | <ul style="list-style-type: none"> <li>• Focussed (emphasizing the message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>  | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | ✓ |
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# Challenges and Impact of Software in 2025

## Presentation Assessment Participant: **Gollasch, David**

|                                   |  |   |
|-----------------------------------|--|---|
| <b>Storyline</b>                  | <ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>   | <p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p> |
| <b>Illustrations<br/>Pictures</b> | <ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>   | <p>Excellent <input type="checkbox"/></p> <p>Good <input type="checkbox"/></p> <p>Improvable <input type="checkbox"/></p> |
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✓

✓

✓

✓

✓

# Challenges and Impact of Software in 2025

## Presentation Assessment Participant: **Bierzynski, Kay**

|                                   |  |   |   |
|-----------------------------------|--|---|---|
| <b>Storyline</b>                  | <ul style="list-style-type: none"> <li>• Logical</li> <li>• Consistent</li> <li>• Attractive</li> <li>• Clear</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | √ |
| <b>Illustrations<br/>Pictures</b> | <ul style="list-style-type: none"> <li>• Fitting/Adequate</li> <li>• Granularity</li> <li>• Power of Expression</li> <li>• Support of Speaker</li> </ul>   | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | √ |
| <b>Animation</b>                  | <ul style="list-style-type: none"> <li>• Focussed (emphasizing the message of the slide)</li> <li>• Speed</li> <li>• Unnecessary effects</li> <li>• Timing</li> </ul>  | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | √ |
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| <b>Delivery</b>                   | <ul style="list-style-type: none"> <li>• Personal style</li> <li>• Interaction with the audience</li> <li>• Complementary speech/illustrations</li> </ul>  | <b>Excellent</b> <input type="checkbox"/><br><b>Good</b> <input type="checkbox"/><br><b>Improvable</b> <input type="checkbox"/> | √ |

# Final Words

In this Hauptseminar we trained:

### **Hard Skills**

= Professional Competence

#### **Paper + Presentation:**

- Research
- Synthesis
- Logical presentation
- Form
- Review process

### **Soft Skills**

= Technical & Social Skills

#### **Paper + Presentation:**

- Communication skills
- Presentation skills
- Interaction skills
- Team work (reviewers)
- Simplicity & beauty



## **Skill:**

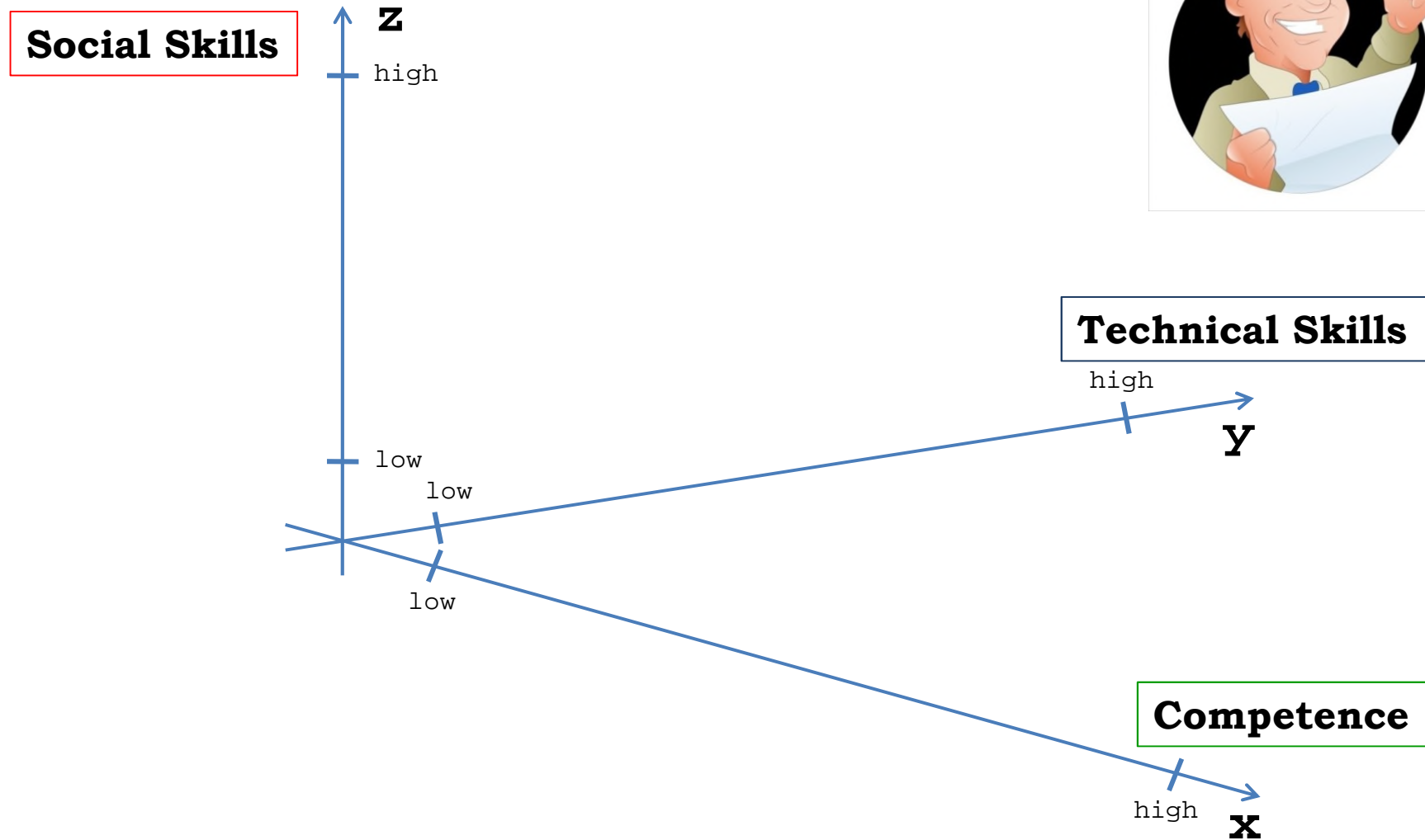
The ability to do something well

[The New Oxford Dictionary of English]

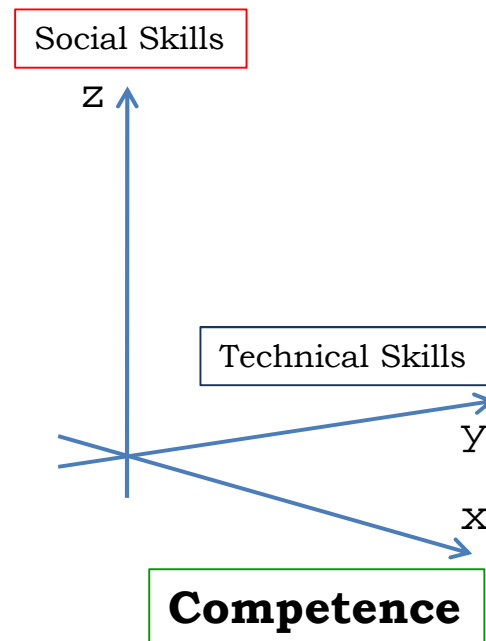


<http://www.inman.com>

## Software Architect: Skills Coordinate System



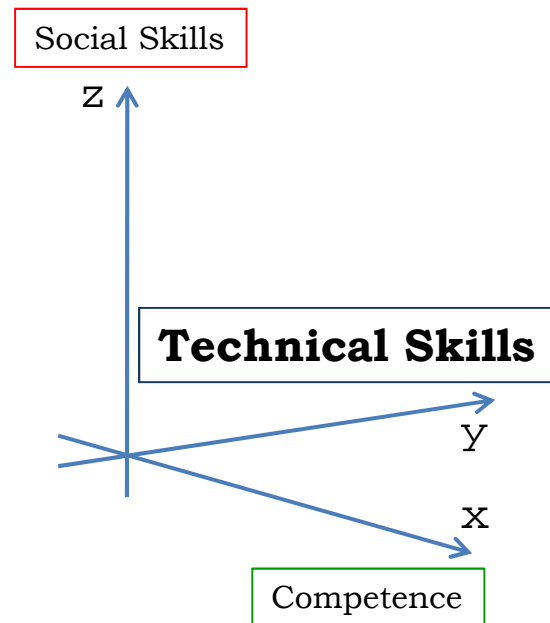
## Skills: **Competence**



### **(Professional) Competence**

- IT (architecture) knowledge
- IT (practical) experience
- State-of-the-Art knowledge (broad, hardware, software, processes)
- Technology mastering (HW & SW)
- Business knowledge
- Innovation capability
- Vision

## Skills: **Technical Skills**



### **Technical Skills**

- Communication skills (speech & writing)
- Presentation skills (oral, graphical & writing)
- Logical reasoning capability
- Efficiency & effectiveness
- Languages
- „Architecture Feel“ (Simplicity & beauty)

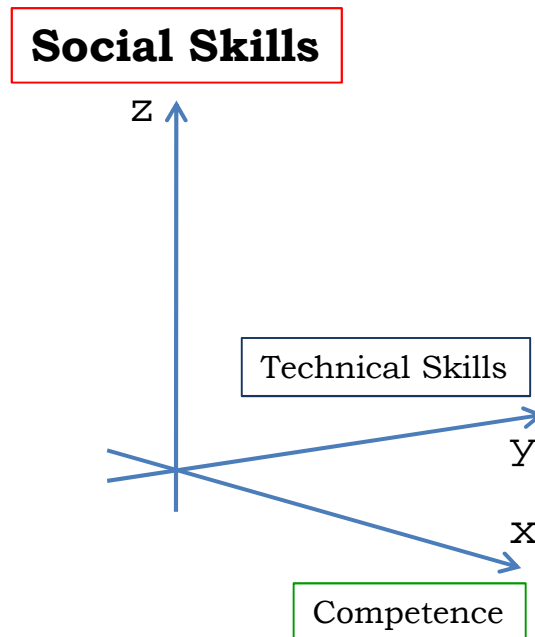
#### **Efficiency:**

Doing the things right

#### **Effectiveness:**

Doing the right things

## Skills: **Social Skills**



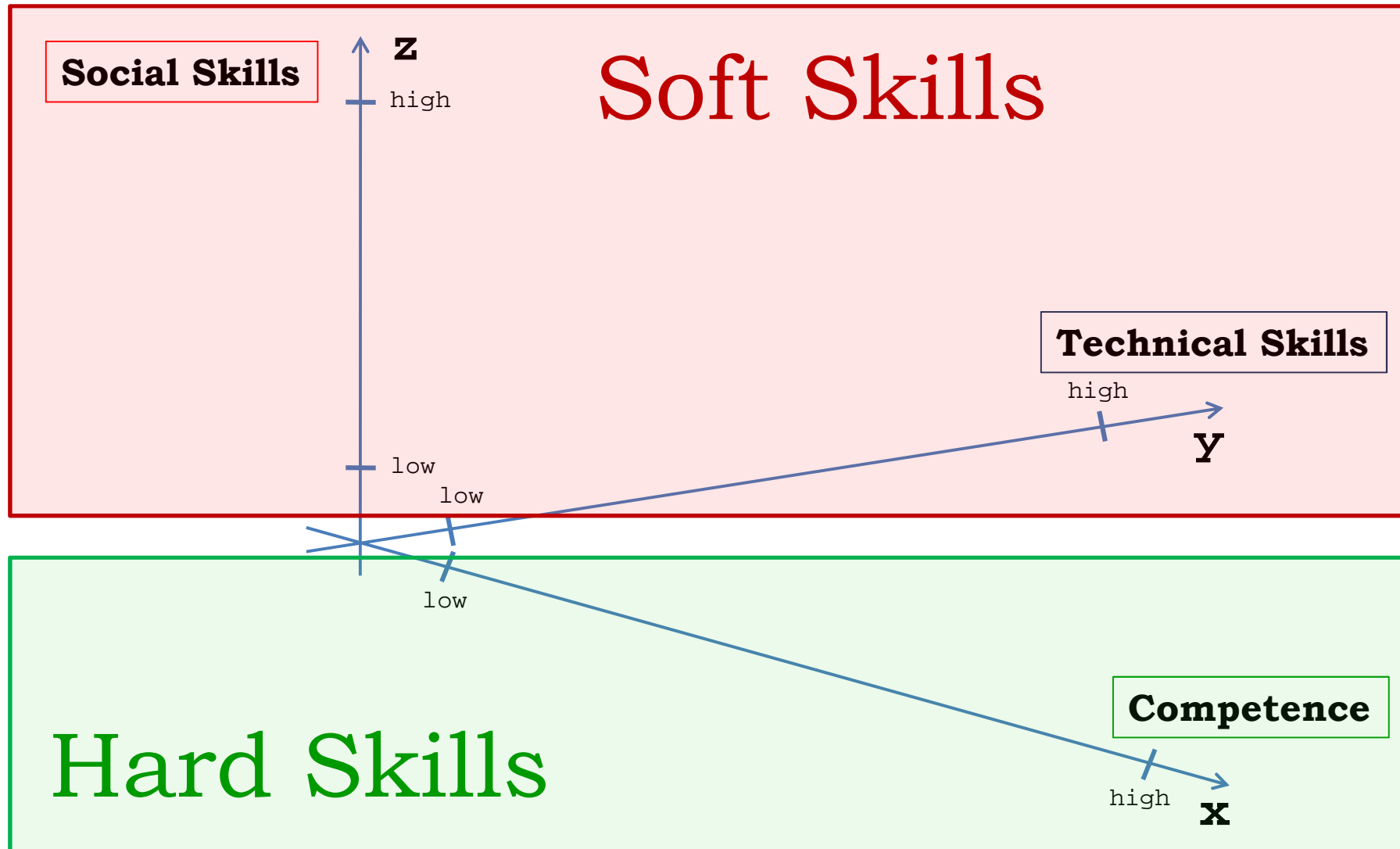
### **Social Skills**

- Negotiation skills
- Persuasion capability
- People interaction capability
- Enthusiasm
- Leadership
- Life-long learning
- Socializing/Networking
- Team Work
- Honesty (Ethics)
- Work-life balance



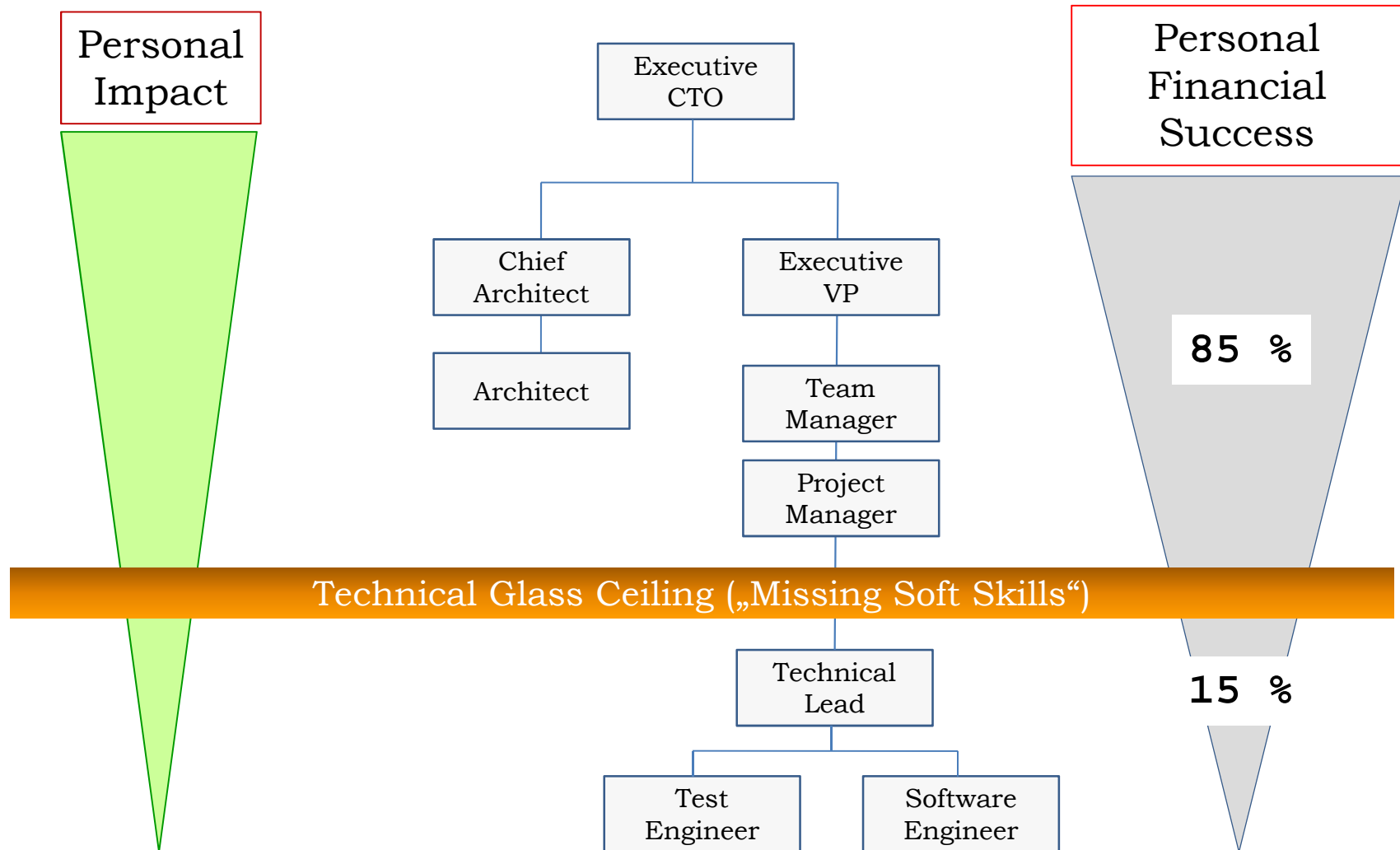
<http://samingersoll.com/life-work-balance/>

## Skills Coordinate System



## Challenges and Impact of Software in 2025

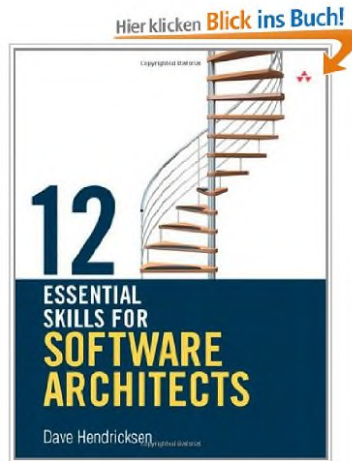
*Hard Skills* ↔ *Soft Skills*: Which are more important?



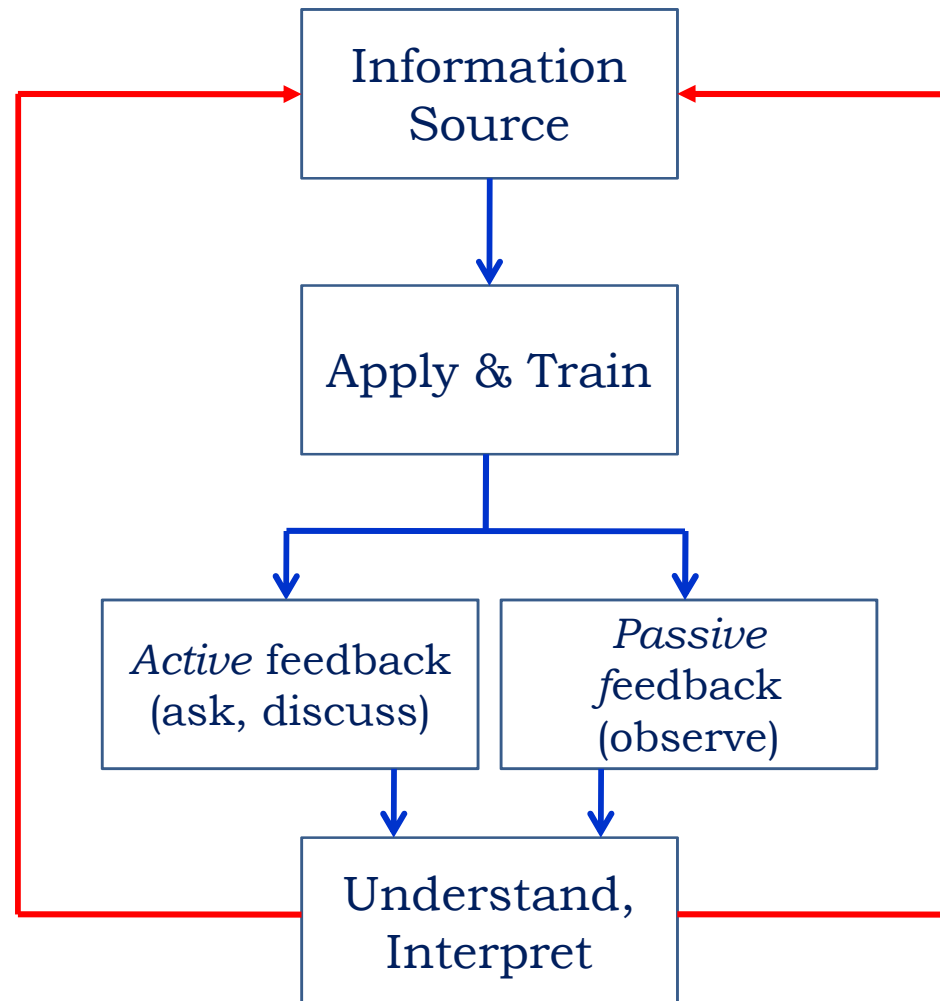
Dale Carnegie, 1937  
ISBN 978-1-4391-9919-0

Dave Hendricksen, 2012, ISBN 978-0-321-71729-0





## How can we learn *Soft Skills*?

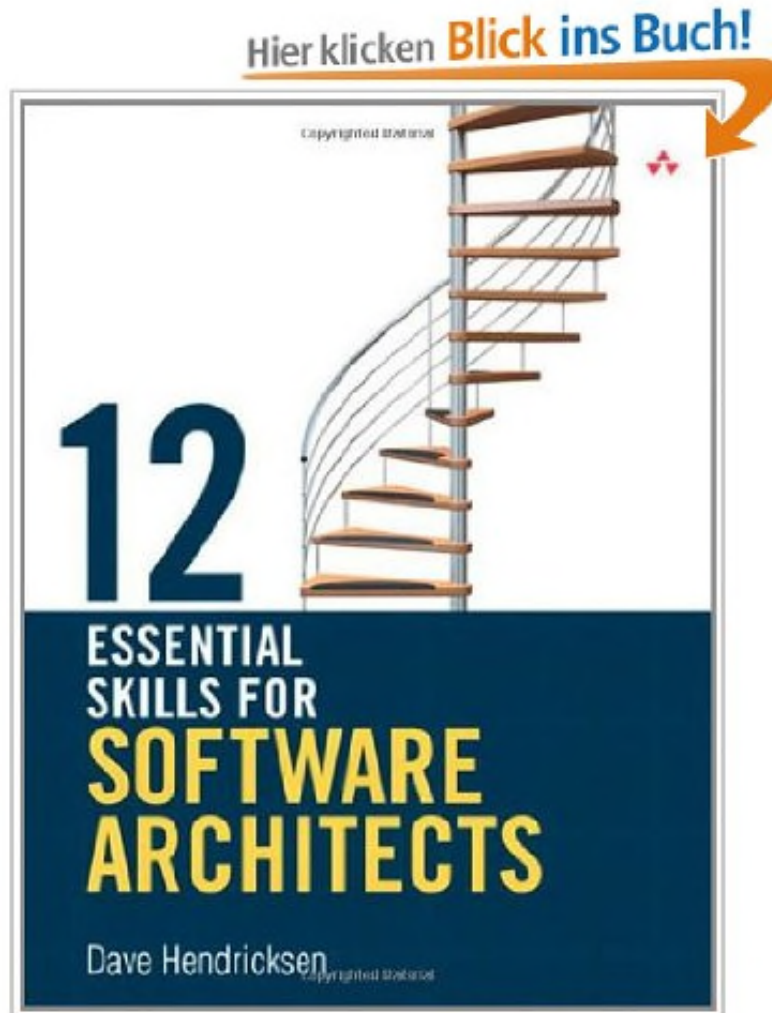


*„Hard skills help us qualify for a job;  
Soft skills dictate our career growth“*

[Wushow Chou, 2013, ISBN 978-1-118-52178-6]



<http://www.rxeconsult.com>

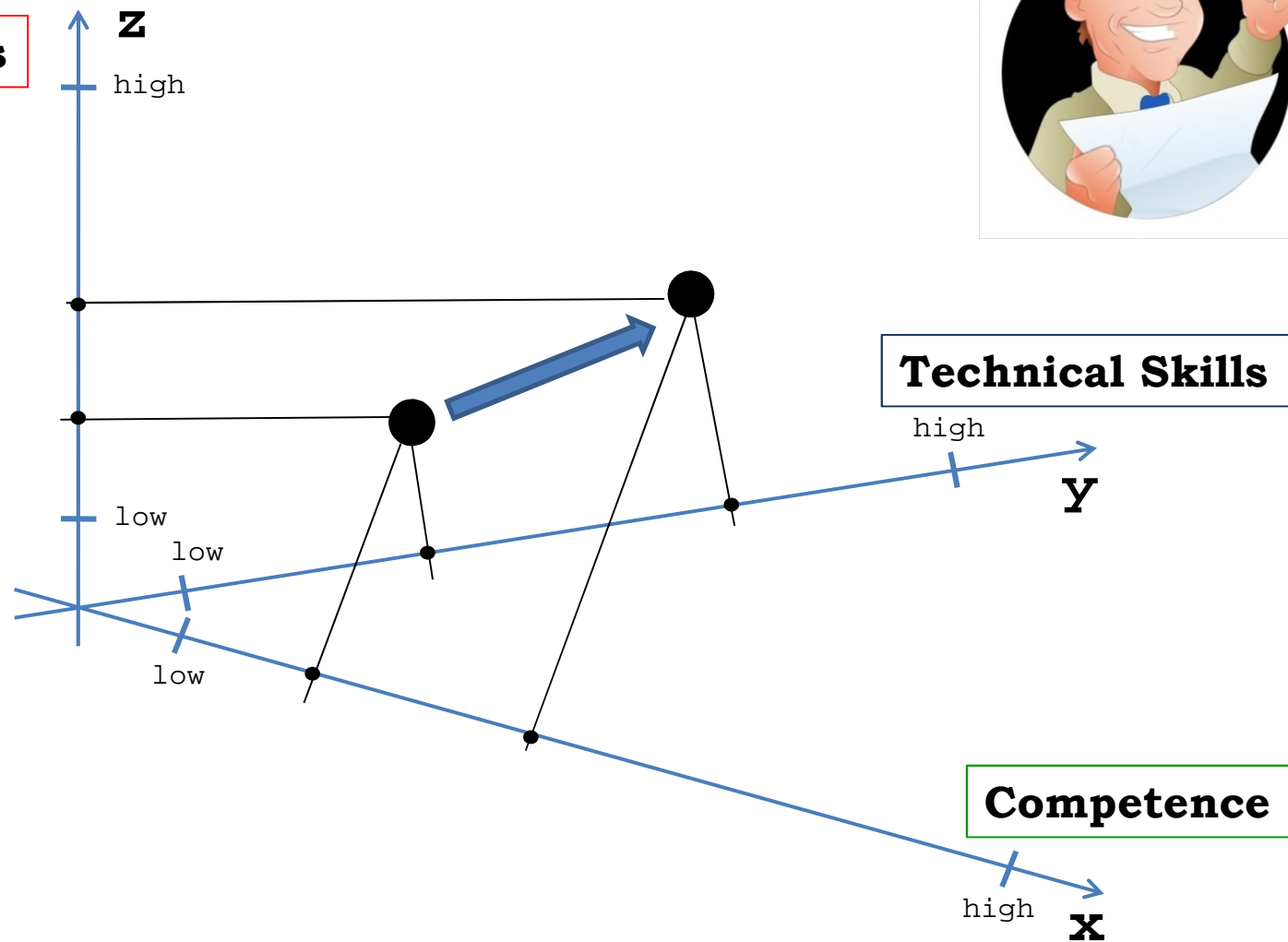


... one of the most  
important books you  
should read in your  
education as a  
software architect

# Challenges and Impact of Software in 2025

## Software Architect: Skills Coordinate System

**Social Skills**



## Parting Notes



# Challenges and Impact of Software in 2025

## Workplan

| Activity   | Deadline/Date  |
|--|--|
| <b>Hauptseminar Kick-Off Meeting</b>   | <b>Tuesday, April 8, 2014: 14:50 – 16:20</b><br><b>Room INF 2101</b> |
| Select 2 <i>peer reviewers</i> (from the participants)                                     | April 20, 2014   |
| Deliver 1 <sup>st</sup> draft of both your storyline and your paper to your peer reviewers | Friday, May 16, 2014   |
| Peer reviewers return their comments to the authors  | Friday, May 23, 2014   |
| <del>Deliver 2<sup>nd</sup>, improved draft of both your storyline and your paper</del>    | <del>Thursday, May 30, 2014</del>                                    |
| <b>1<sup>st</sup> Seminar Day</b>  | <b>Friday, June 6, 2014: 09:00 – 13:00</b><br><b>Room INF 2101</b>   |
| Deliver 2 <sup>nd</sup> , improved draft of your paper to your peer reviewers              | Friday, June 20, 2014  |
| Peer reviewers return their comments to the authors  | <b>Monday, June 30, 2014</b>   |
| <del>Deliver pre-final draft of your paper</del>   | <del>Friday, July 4, 2014</del>                                      |
| <b>2<sup>nd</sup> Seminar Day</b>  | <b>Friday, July 11, 2014: 09:00 – 13:00</b><br><b>Room INF 2101</b>  |
| Deliver final version of your paper  | Latest: Wednesday, July 23, 2014                                     |
| pdf-volume of collected papers ready   | Friday, August 22, 2014  |

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⇒ Benoteter Schein von  
Katrín Heber

### Lehrveranstaltung: Hauptseminar „Software in 2025“

**Dr. Frank J. Furrer, Sommersemester 2014**

| Name              | Matrikel-Nummer | Attendance<br>3x | Paper Delivery<br>3x | Note |
|-------------------|-----------------|------------------|----------------------|------|
| Bierzynski, Kay   |                 | √                | √                    | 1.0  |
| Gollasch, David   |                 | √                | √                    | 1.0  |
| Korger, Christina |                 | √                | √                    | 1.0  |
| Peschel, Paul     |                 | √                | √                    | 1.0  |
| Rausch, Jonas     |                 | √                | √                    | 1.0  |
| Schön, Hendrik    |                 | √                | √                    | 1.0  |



Future:

Lehrveranstaltungen TUD Dr. Frank J. Furrer

Wintersemester 2014/15:

## **Future-Proof Software Systems**

(2 hrs/week, Oral exam, 3 ECTS Credits)



System &  
Software  
Technical  
Debt

Sommersemester 2015:

## **Hauptseminar**

## **«Cognitive Computing»**

(3 seminar days, No exam, 3 ECTS Credits)



<http://www.greenbookblog.org>

Thank you

I greatly enjoyed this seminar

I hope to work again with some of you

