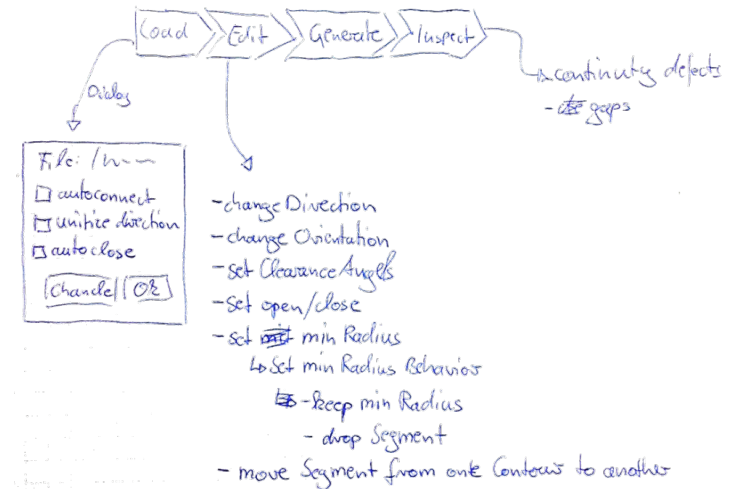
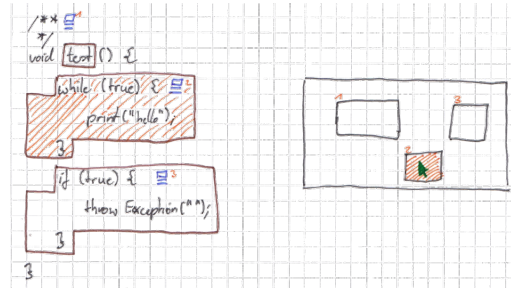
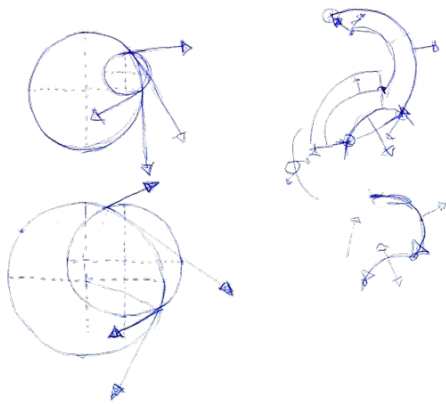


# Sketches and Diagrams in Practice



**Sebastian Baltes**

University of Trier, Germany

@s\_baltes

research@sbaltes.com



# Motivation

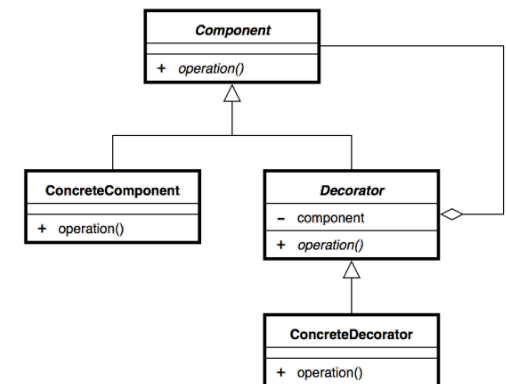
*"The UML is already 'the lingua franca of the software engineering community' and it is very likely to spread even further."*

Harald Störrle, 2001



*„UML has become a de facto standard in industry.“*

Dag Sjøberg, 2011

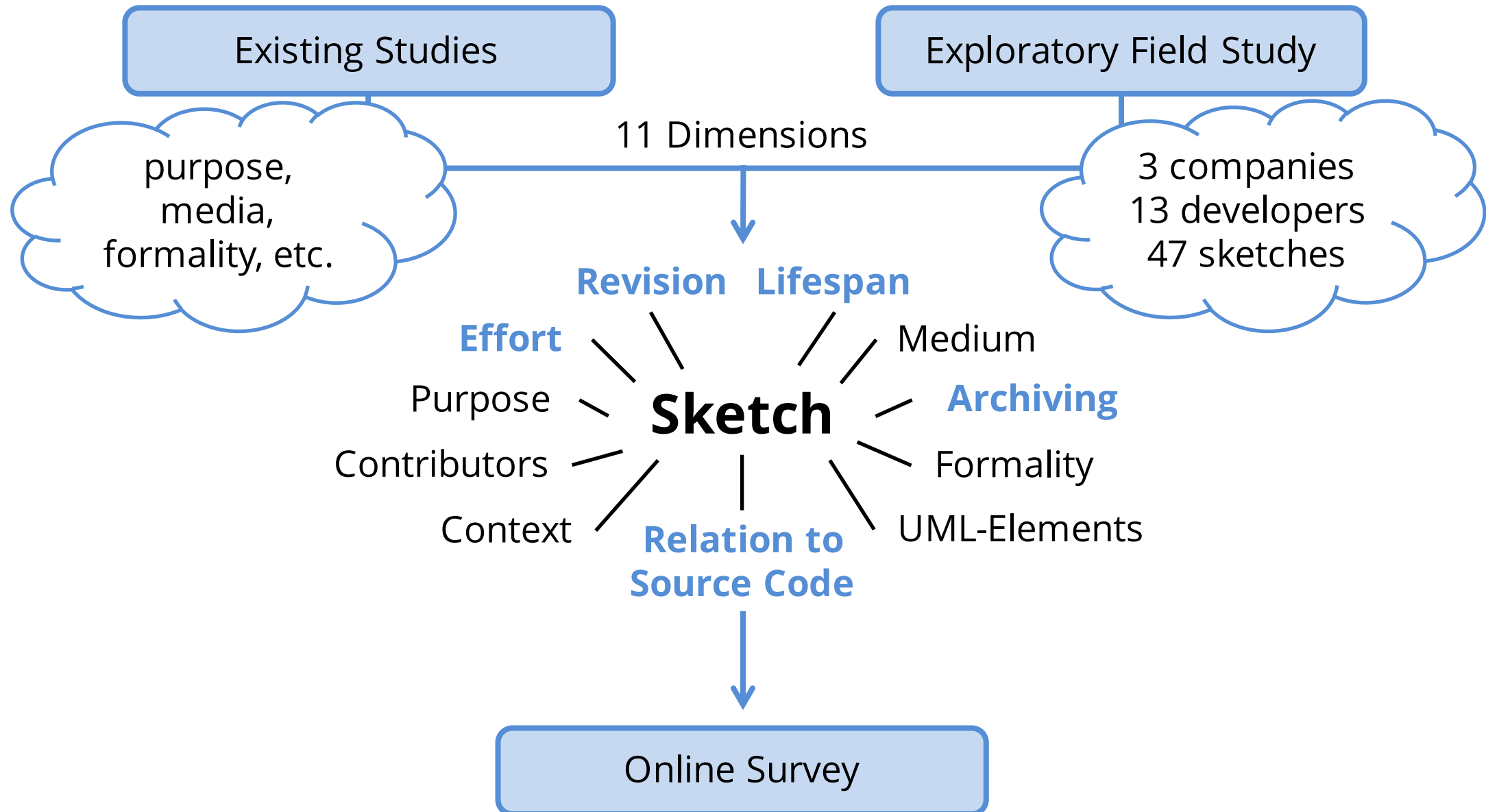


## Is that true?


- **There is evidence that UML is not widely used.**
- **But how do developers visualize software architecture, requirements, relevant domain knowledge, context, etc.?**



# Research Design



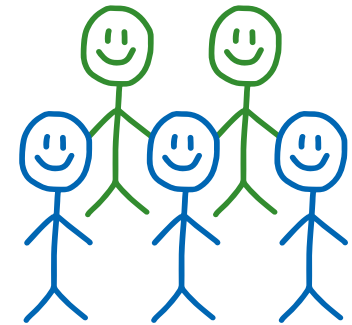
# Online Survey

- **Target population:** "software practitioners"
- **Concise:**
  - ~10 minutes to complete
  - 28 questions, 15 about last sketch
- **Recruiting:**
  - Network of colleagues and contacts
  - Social networks 
  - IRC channels and online communities
  - Directly contacted software companies
  - Article on major German IT news website



# Participants

- **n=394**
- **32 countries**
  - 54% Germany  15% North America 
- 52% software developers, 22% software architects
- Time spent developing software: **80%** (median) 
- Professional work experience: **10 years** (median) 
- Software projects from various **application areas**



- Some are on the **poster**, others can be found in the **paper**:

Sebastian Baltes and Stephan Diehl:  
*Sketches and Diagrams in Practice*

In: Proceedings of the 22nd ACM SIGSOFT International Symposium on Foundations of Software Engineering (FSE'14).



**fse14.sbaltes.com**

# We need more input from practitioners...

- Interviews with software practitioners about how and why they use sketches
- Study on the effects of sketching on program comprehension here at XP

**[xp16.sbaltes.com](http://xp16.sbaltes.com)**



# We need more input from practitioners...

- Interviews with software practitioners about how and why they use sketches
- Study on the effects of sketching on program comprehension here at XP

**xp16.sbaltes.com**

**Questions?**

 @s\_baltes

 research@sbaltes.com

