

h_da

HOCHSCHULE DARMSTADT
UNIVERSITY OF APPLIED SCIENCES

fbi

FACHBEREICH INFORMATIK

The Way to **Agile Modeling** and its use in **eXtreme Programming**

Presented by Anwar Benhamada

**supervised by
Prof. Dr. Inge Schestag**

**As part of the Seminar Wissenschaftliches Arbeiten 1
University Of Applied Sciences Darmstadt**

**29
June
2016**

Overview

1. What's Agile Modeling?
2. The main components of AgileModeling
3. What is eXtreme Programming?
4. eXtreme Programming Practices
5. The potential fit between Agile Modeling and eXtreme Programming

Summary and outlook

1. What's Agile Modeling?

First impressions
about Agile
Modeling

“

Agile Modeling (AM) is a practice-based methodology for effective modeling and documentation of software-based systems ..."

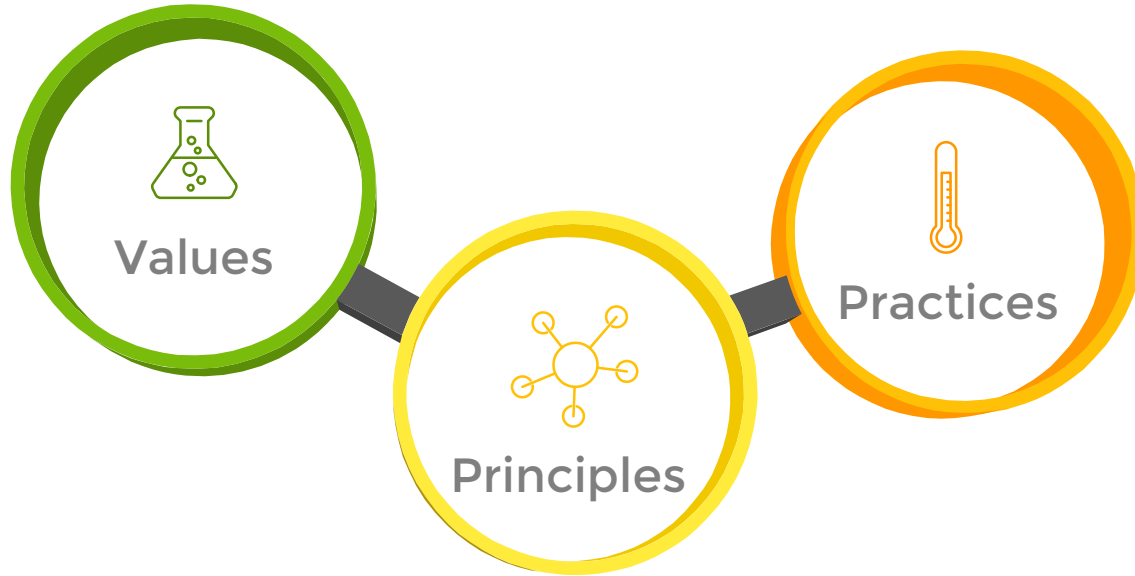
-Scott Ambler-

A thick yellow diagonal stripe runs from the top right towards the bottom left, separating the white text area from the solid yellow background.

2.

The main components of **Agile Modeling**

The main components of Agile Modeling



Agile Modeling Values



Quelle Grafik: W3 computing. URL: <http://www.w3computing.com/systemsanalysis/wp-content/uploads/2014/08/6.6.jpg>

Agile Modeling Values

Simplicity: avoid ...

- applying complex patterns too soon,
- over-architecting the system ...
- ... to support potential future requirements,
- ... to develop a complex infrastructure

Communication

- "A process by which information is exchanged between individuals through a common system of symbols, signs or behavior."
[M. Webster, 1999]

Feedback

- Develop the model as a team
- Review the model with your target audience
- Implement the model

Courage

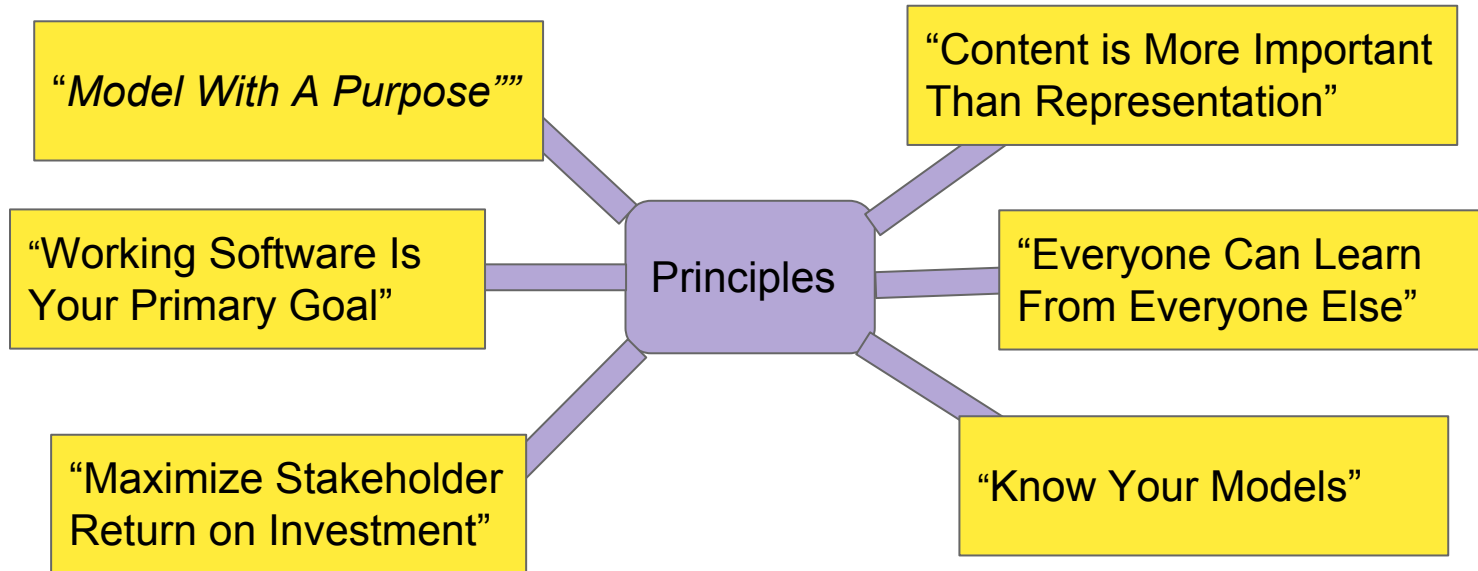
- Make decisions even if they are not very comfortable in taking this step

Agile Modeling Principles

selection

Core Principles

Supplementary Principles

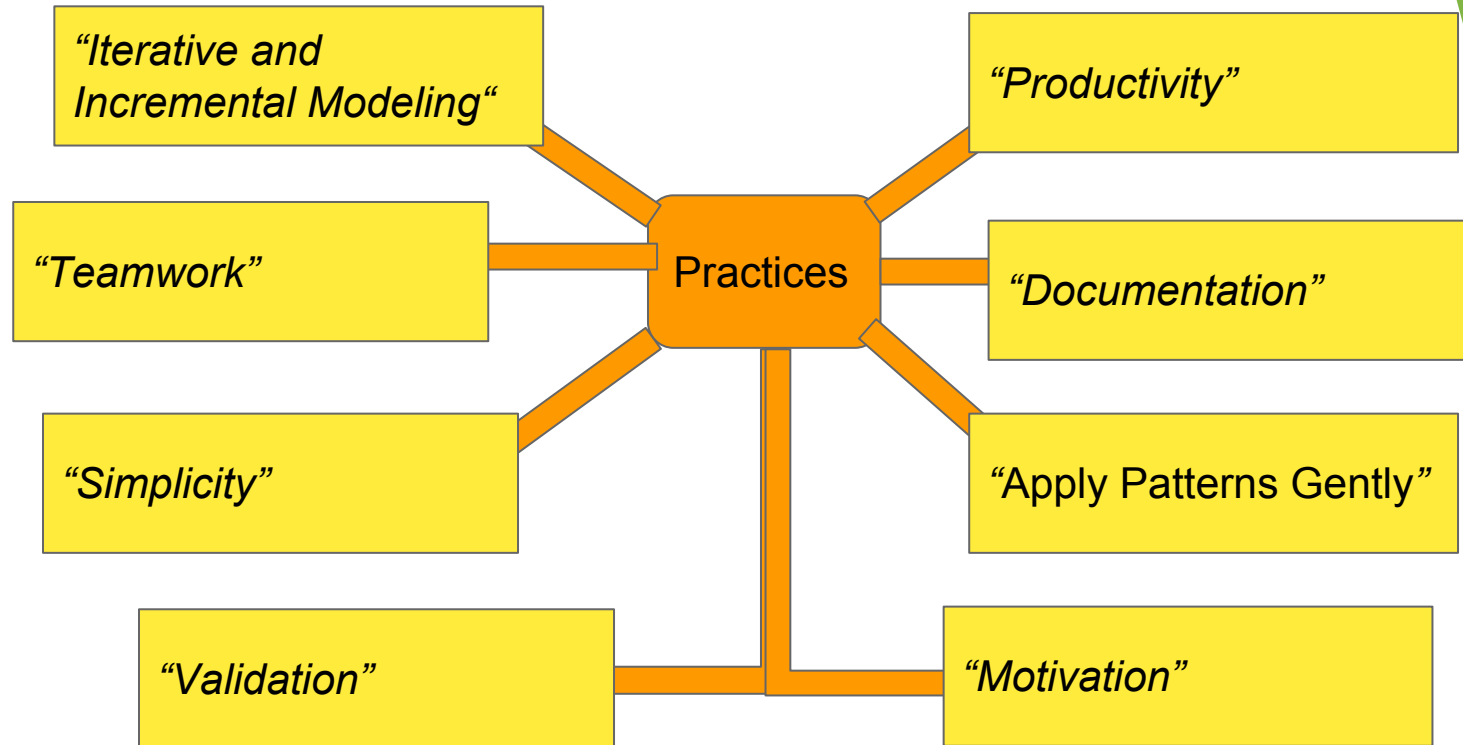


Agile Modeling Practices

selection

Core Practices

Supplementary Practices



3. What is eXtreme Programming?



Quelle : Amazonaws. URL: http://s3.amazonaws.com/giles/hawaii_051109/extreme.jpg



eXtreme Programming

- ▶ Developed by Kent Beck, Ward Cunningham and Ron Jeries
- ▶ The main goal is to reduce the cost of change.
- ▶ Traditional system development methods, requirements are determined in the beginning and often fixed from that point on

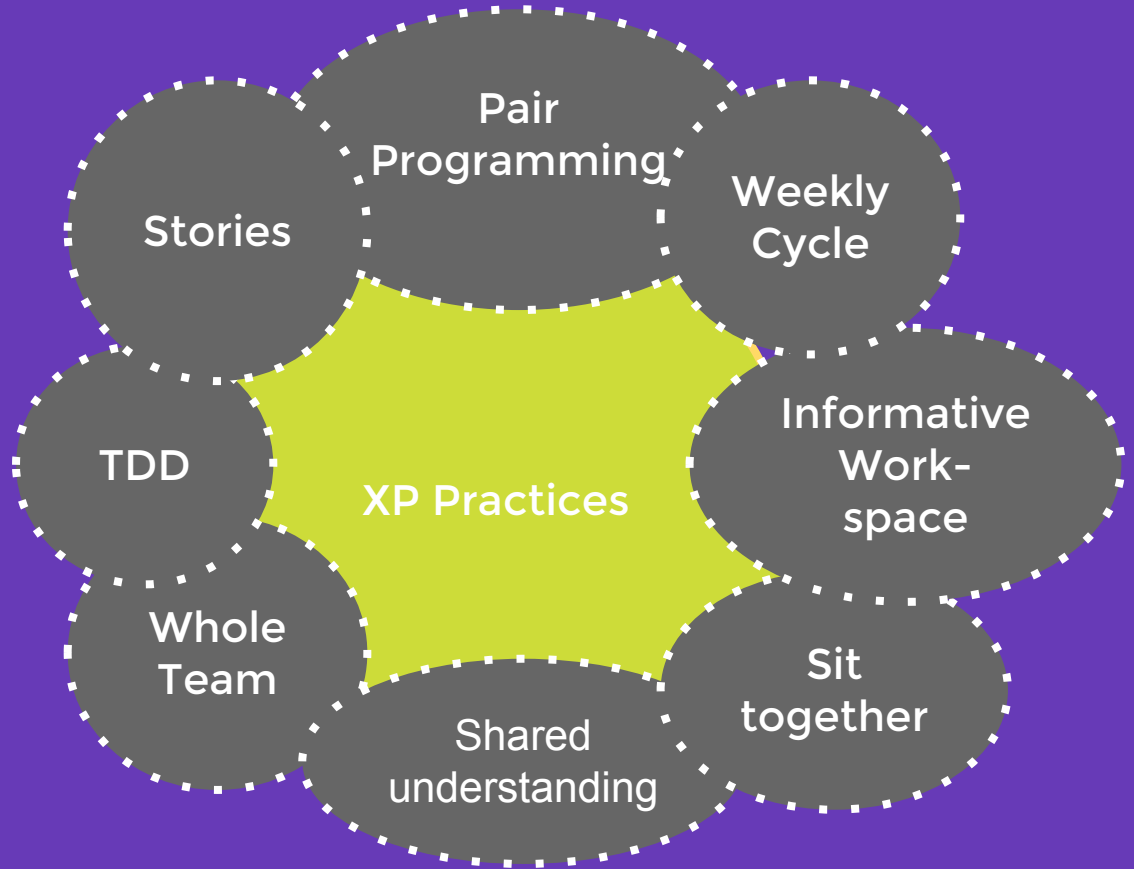
4. eXtreme Programming Practices



Quelle : Amazonaws. URL: http://s3.amazonaws.com/giles/hawaii_051109/extreme.jpg

eXtreme Programming Practices

selection



5. The potential fit between Agile Modeling and eXtreme Programming

The potential fit between Agile Modeling and eXtreme Programming

AM Practice

Active Stakeholder Participation

Potential fit in XP

AM uses the term project stakeholder in place of customer and focuses on the concept of their active participation, hence Active Stakeholder Participation and not On-Site Stakeholder.

The potential fit between Agile Modeling and eXtreme Programming

AM Practice

Create Several
Models in Parallel

Potential fit in XP

This is a modeling-specific practice. XP developers can clearly work on several models such as CRC cards, acceptance test cases, and sketches if they choose to do so.

The potential fit between Agile Modeling and eXtreme Programming

AM Practice

Prove it With Code

Potential fit in XP

This is the AM version of XP's *Concrete Experiments* principle. In fact, it was originally called *Concrete Experiments* although was renamed when it was evolved into a practice.



Summary and outlook

- ▶ Think of Agile Modeling as a supplementary process to a methodology.
- ▶ Reduce the effort in documentation and concentrate on producing a working software as soon as possible.
- ▶ The Modeling in agile modeling doesn't contradict with the eXtreme Programming simplicity value.



**Thank you for your
attention !**

Any questions?

References

- [1] Merriam Webster. Merriam-Webster's collegiate dictionary. 10th ed. Springfield, Mass.: Merriam-Webster, 1999. 38a, 1559. isbn: 9780877797135 (cit. On p. 7).
- [2] W3 computing. URL: <http://www.w3computing.com/systemsanalysis/wp-content/uploads/2014/08/6.6.jpg>(visited on 06/14/2016)
- [3]. Amazonaws. URL: http://s3.amazonaws.com/giles/hawaii_051109/extreme.jpg