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Agile MDA:

an obvious oxymoron or a winning approach
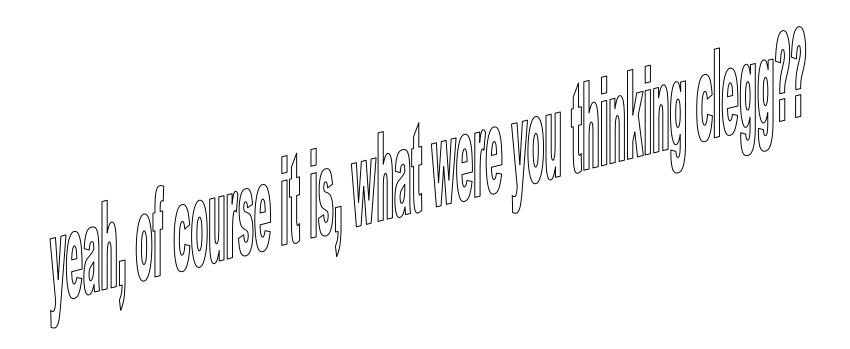
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Agile MDA - an Oxymoron?

yeah, of course it is, what were you thinking clegg??

Agile

- Driven by velocity
- Measured by code
    - that does what it's supposed to do
        - correctness > *defined by* > tests
        - tests > *defined by* > use cases/stories
        - use cases > *defined by* > users
    - **<u>not</u>** driven by models
        - Agile models
            - aid thinking,
            - aid communication,
            - are disposable

MDA

- Driven by models
  - there's a clue in the title
  - executable models?

- Measured by
  - the solution that does what it's supposed to do
    - correctness   > *defined by* > models
    - models   > *defined by* > developers
    - models   > *verified by* > users
  - other measures:
    - full lifecycle productivity
    - repeatability

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MDA v Agile

- MDA
  - Models
  - Traceability
  - Managing change
  - Process

- Agile
  - Collaboration (f2f)
  - Code
  - Welcoming Change
  - People

- both value…
  - Communication
  - Accuracy
  - Flexibility
  - Effectiveness

Where do Models add value

- Agile
    - Collaboration (f2f) ✓
    - Code ✓
    - Welcoming Change
    - People

Generated:
- *1-way*
- *round-trip*
- *synchronized*

Where do Models add value

- Agile
    - Collaboration (f2f) ✔
    - Code ✔
    - Welcoming Change
    - People

Generated:
- *1-way*
- *round-trip*
- *synchronized*

visualization

Where do Models add value

Visualizations

- Agile
    - Collaboration (f2f) ✓
    - Code ✓
    - Welcoming Change
    - People

Where do Models add value

Visualizations

- Agile
  - Collaboration (f2f) ✓ ✓
  - Code ✓ ✓
  - Welcoming Change ✓
  - People ✓

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Agile Modeling & Visualization

- To express requirements
  - Usually hand-drawn & transient
  - Primarily: Class, Sequence, Use Case & Activity
    - Supplementary requirements techniques
  - Eg CRC, Robustness etc

- Technology specific models
  - database, pageflow, etc.

Hand-drawn vs tool-drawn

- Hand drawn
    - Fast,
    - Flexible,
    - Implicitly temporary

- Tool Drawn
    - Consistent
    - Maintainable
    - Can drive code

- use modeling tools
    - to communicate – reverse engineering
    - to transform – code generation
    - to develop – visual editors

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demonstration

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Summary

- Agile modeling because
  - it's as easy as drawing it by hand
    - communicating to groups or remotely
  - it's worth the extra investment up front
    - because it'll generate code
  - it ***is*** the code

Agile References

- http://www.agilemanifesto.org
- http://www.agilealliance.org
- http://www.agilemodeling.com
- http://www.martinfowler.com/articles/newMethodology.html#N401

More Technical Information

- Visit Oracle Technology Network

    http://otn.oracle.com

- The JDeveloper Home page

    http://www.oracle.com/technology/products/jdev

- Register for the Java Newsletter

    http://otn.oracle.com/javanews

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QUESTIONS
ANSWERS