Constructing Digital Habitats

ENSE 805 with Tim Maciag







Outline

- Constructing digital habitats
- Constitution of the habitat
- Integration of the habitat

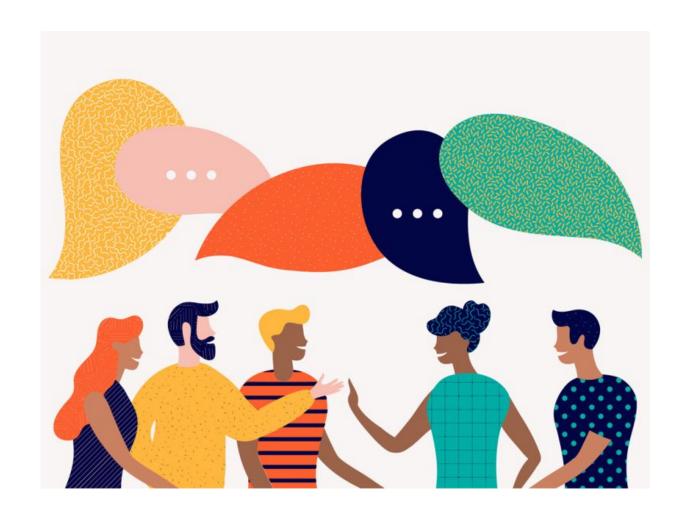
Habitats, CoPs, & the digital variety

A definition



Habitats, CoPs, & the digital variety

- A definition
- The habitat of a community of practice (CoP)



Habitats, CoPs, & the digital variety

A definition

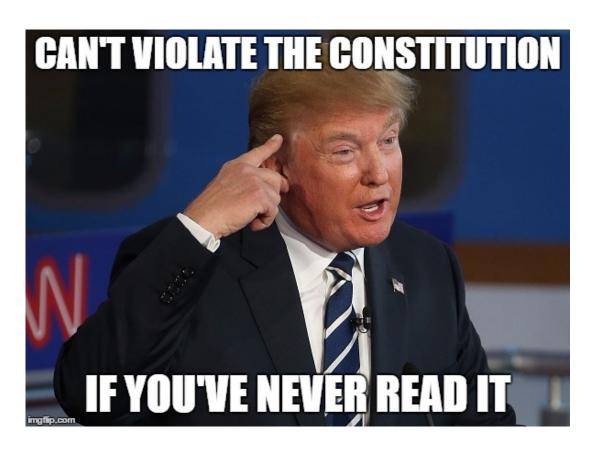
The habitat of a community

of practice (CoP)

Digital habitats



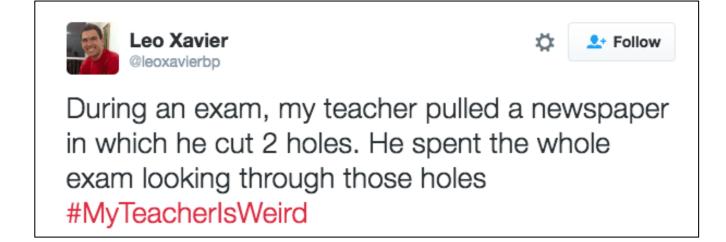
- Four interrelated perspectives
 - Tools
 - Platforms
 - Features
 - Configuration



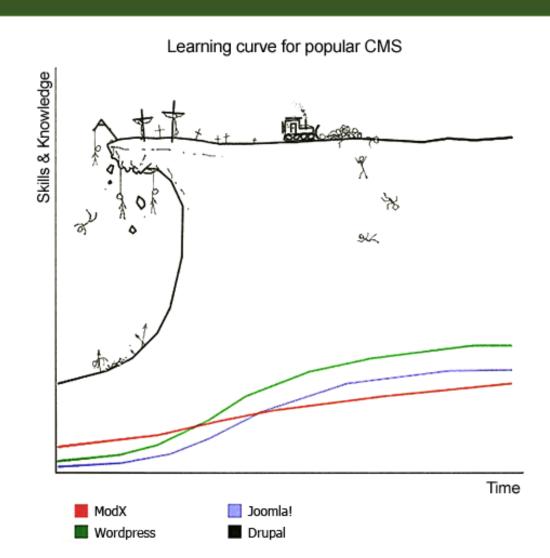
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 - Tools
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- "Modern" examples
 - Facebook



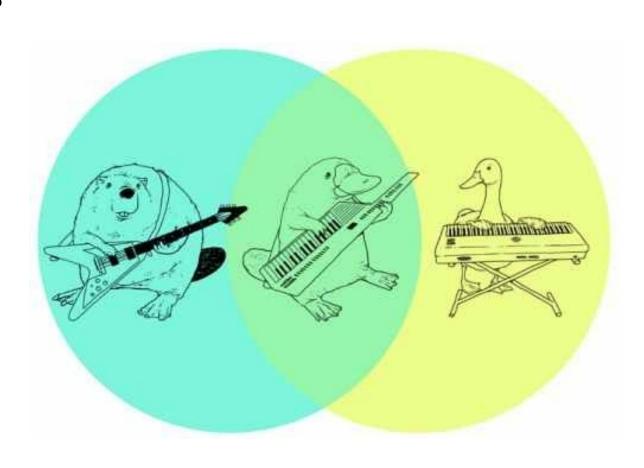
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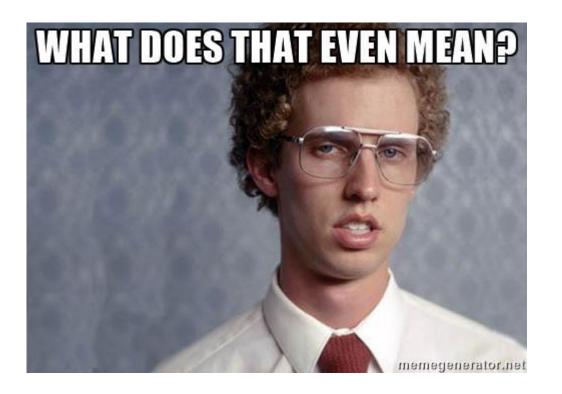
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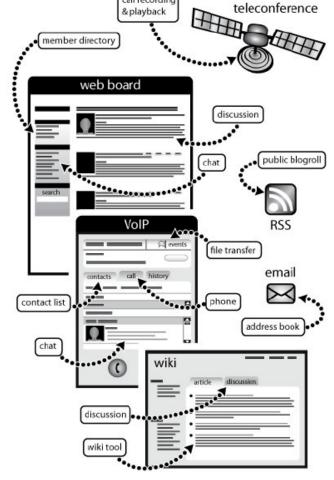
- Four interrelated perspectives
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- "Modern" examples
 - Facebook
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- Keyword Interrelated!



Diving deeper into the meaning



- Diving deeper into the meaning
- Activities
 - 1-to-1 activity mapping
 - Multiple activity mapping



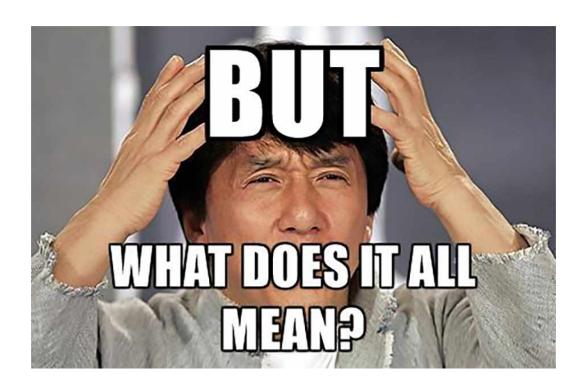
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- Design questions



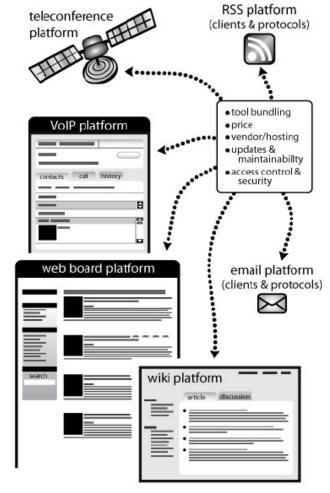
- Diving deeper into the meaning
- Activities
 - 1-to-1 activity mapping
 - Multiple activity mapping
- Design questions
- The tool perspective



Diving deeper into the meaning



- Diving deeper into the meaning
- Single vs. multiple tool platforms



4.2 - The platform view. Vendors and developers package tools into platforms

- Diving deeper into the meaning
- Single vs. multiple tool platforms
- Design questions



- Diving deeper into the meaning
- Single vs. multiple tool platforms
- Design questions
- The platform perspective



Diving deeper into the meaning



- Diving deeper into the meaning
- Features & tools (& mini-tools)
 - Caution!

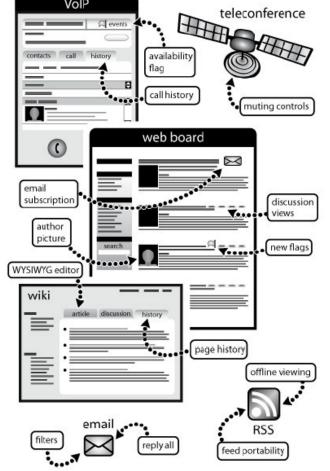


Figure 4.3 - The feature view. Features make technology usable

D.B. Austina and D. Fletcher. Scenario-Focused Engineering. Microsoft Press. 2014

- Diving deeper into the meaning
- Features & tools (& mini-tools)
 - Caution!
- Design questions



- Diving deeper into the meaning
- Features & tools (& mini-tools)
 - Caution!
- Design questions
- The features perspective



Diving deeper into the meaning



- Diving deeper into the meaning
- Single vs. multiple platforms

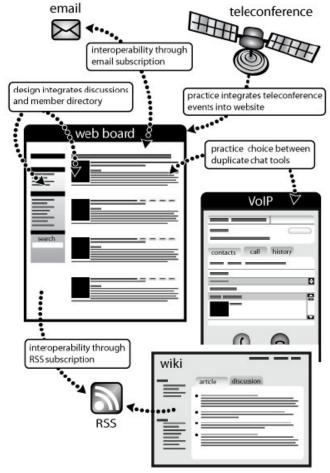


Figure 4.4 - The configuration view. A complex configuration of technologies serves as substrate to a digital habitat

- Diving deeper into the meaning
- Single vs. multiple platforms
- Design questions



- Diving deeper into the meaning
- Single vs. multiple platforms
- Design questions
- The configuration perspective



Integration of the habitat

• Design questions



Integration of the habitat

- Design questions
- Looking at integration through
 - Platforms
 - Interoperability (features)
 - Tools
 - Practice



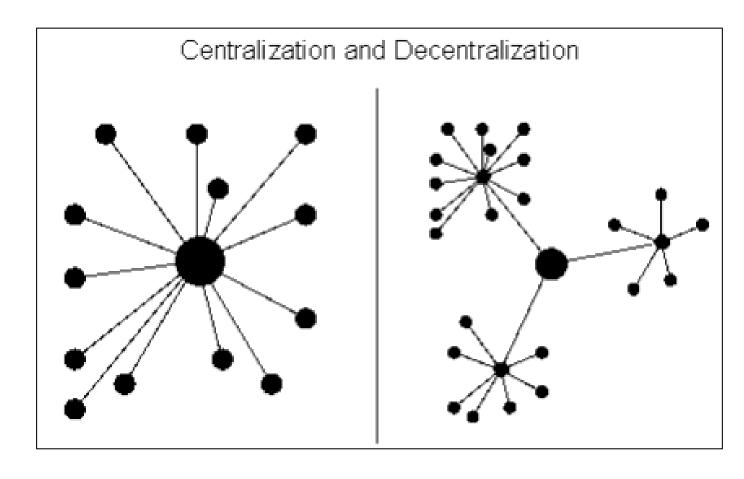
Integration through platforms

Definition of a good platform



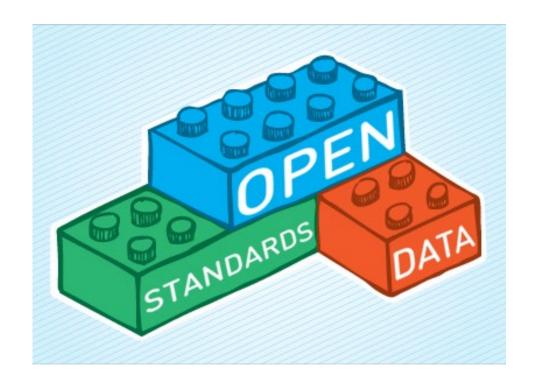
Integration through platforms

- Definition of a good platform
- Central vs. decentral



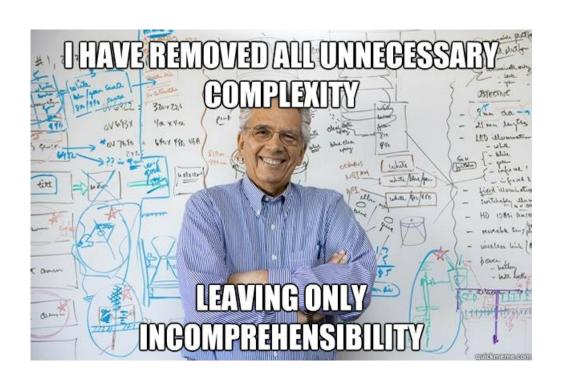
Integration through interoperability (features)

Expandability/openness



Integration through interoperability (features)

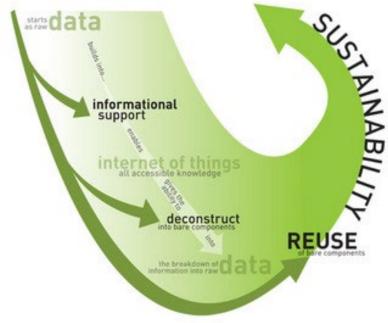
- Expandability/openness
- Adding complexity through constraints



Integration through interoperability (features)

- Expandability/openness
- Adding complexity through constraints
- Pros/cons
 - Berners-Lee: <u>The next Web of open, linked</u> <u>data</u>
 - Evolution of Bruce Sterling's idea of spimes
 (space +time) & the idea of an internet of things
 - Tim Berners-Lee's <u>Soli</u>d





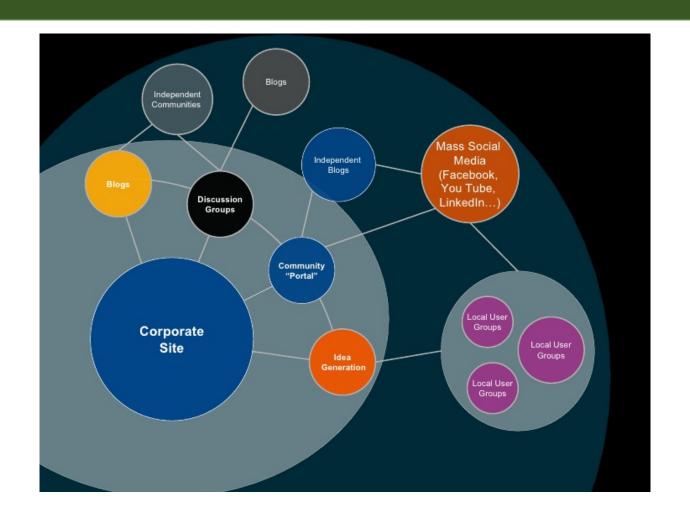
Integration through tools

Navigation across tools & platforms



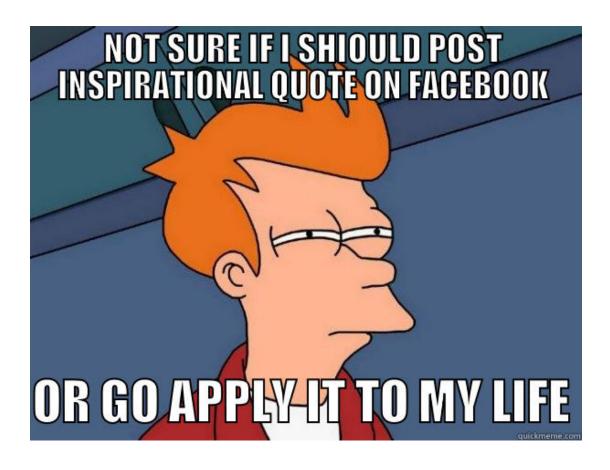
Integration through tools

- Navigation across tools & platforms
- Reflects the community's social ecosystem



Integration through practice

Applied/ing skills



D. Hendricks. 6 \$25 Billion Companies That Started in a Garage (2014). Online: https://www.inc.com/drew-hendricks/6-25-billion-companies-that-started-in-a-garage.html (Accessed Sept. 2019)

Integration through practice

- Applied/ing skills
- Balance between integrated and non-integrated technology



[•] D. Hendricks. 6 \$25 Billion Companies That Started in a Garage (2014). Online: https://www.inc.com/drew-hendricks/6-25-billion-companies-that-started-in-a-garage.html (Accessed Sept. 2019)

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