

# Wiki as a pedagogical tool in learning

## lessons learned



Svend Andreas Horgen

Department of Informatics and e-Learning (AITeL)  
Sør-Trøndelag University College, Trondheim

Blog: <http://gjemmesiden.blogspot.com>

Author of book: <http://phpbok.no>

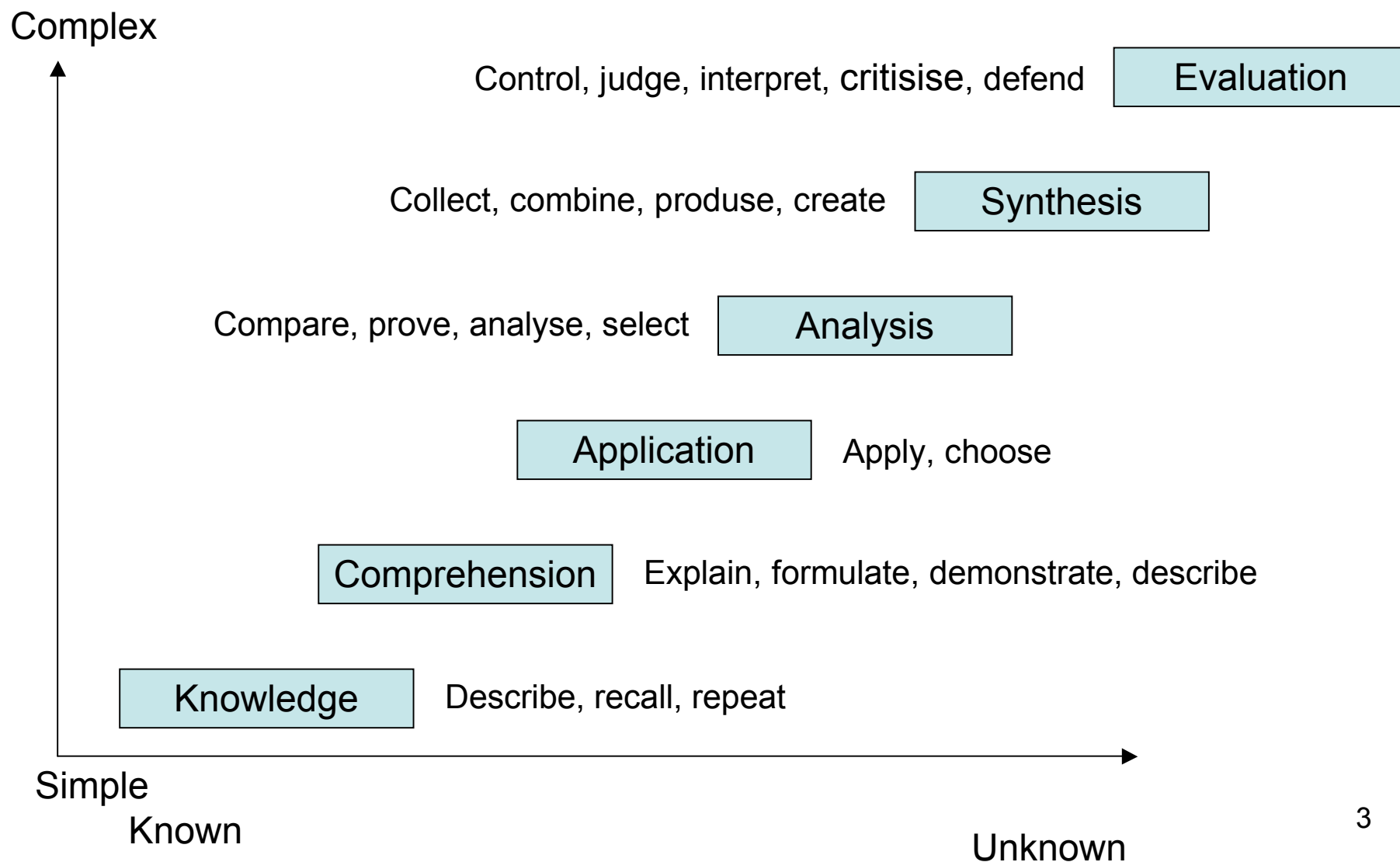
Homepage: <http://aitel.hist.no/~svendah>

E-mail: [svend.horgen@hist.no](mailto:svend.horgen@hist.no)

# Case 1: Individual wiki work

- Mandatory exercise
- Individual work in a collaborative setting
- Defined the exercise well
  - Goals
  - "Rules"
  - Bloom's
  - Help
- Wiki setup -  
[www.wikimedia.org](http://www.wikimedia.org)
- Three related courses
  - Start january 2006
  - Create own texts before easter, april
  - Read and extend after easter, april
  - Exam in may

# Bloom's taxonomy (ill: Greta Hjertø, HiST)



http://wiki.aitel.hist.no/index.php/Bluetooth

Side-søk Søk etter neste Tale Spol tilbake Tilbake Framover Logg inn

article discussion edit history

## Bluetooth

Bluetooth (norsk: [Blåtann](#)) er en radiooverføringsprotokoll som benyttes for å sende og motta data trådløst mellom bærbare og/eller stasjonære enheter. Standarden administreres av Bluetooth Special Interest Group (SIG), og er i bruk både i forbindelse med mobiltelefoner og håndholdte datamaskiner. Standarden er kalt opp etter den dansk/norske vikingkongen Harald [Blåtann](#), som var konge over Norge og Danmark (og deler av Sverige) fra år 958 til 987.

Hensikten med Bluetooth er å oppnå enkel kommunikasjon mellom nett-enheter. Dette vil på sikt eliminere behovet for de forskjellige kablene som kobler sammen de ulike enhetene.

Bluetooth satser på robusthet, lavt strømforbruk og lave kostnader. Kjernesystemet i bluetooth består av en RF-'tranceiver', et basenett og protokollstakk. Systemet tilbyr tjenester som muliggjør en sammenkobling av enheter og overføring av data mellom disse. Bluetooth bruker samme frekvensområde som WLAN-teknologien spesifisert i IEEE 802.11b, altså på 2,4 GHz-båndet. Den teoretiske kapasiteten er 1 Mbps og rekkevidden er på mellom 10 og 100 meter.

**Blåtann finner du over alt i dagens teknologimarked, blant annet i:**

- Mobiltelefoner
- Handsfree til mobiltelefoner

 **Bluetooth®**  
Blåtann

**navigation**

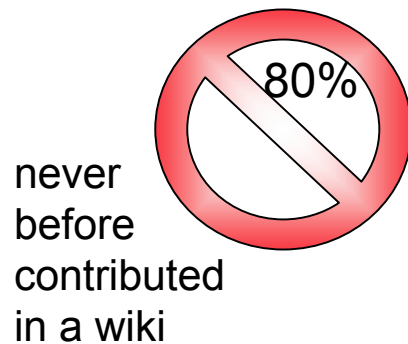
- [Hovedside](#)
- [Community portal](#)
- [Aktuelt](#)
- [Siste endringer](#)
- [Tilfeldig side](#)
- [Hjelp](#)
- [Donasjoner](#)

**søk**

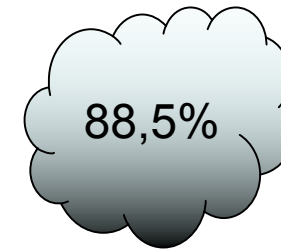
**toolbox**

- [Lenker hit](#)
- [Relaterte endringer](#)
- [Last opp fil](#)
- [Spesialsider](#)
- [Utskriftsversjon](#)

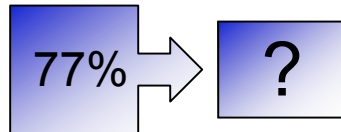
# Evaluation spring 2006



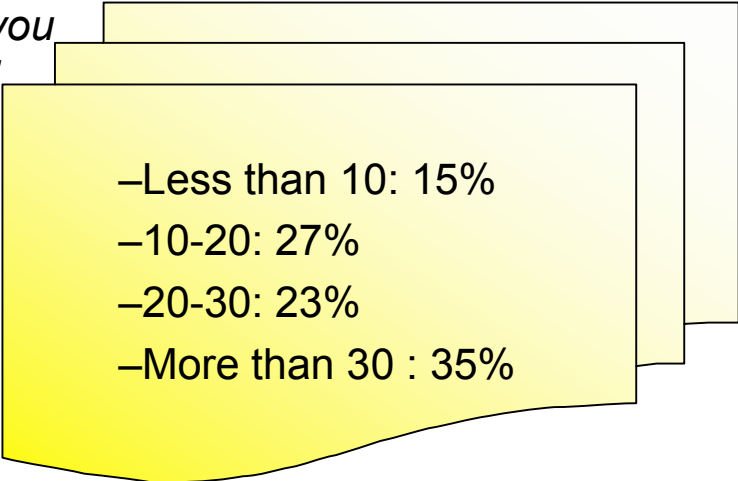
liked using a wiki  
as a mandatory  
work (yes/no)



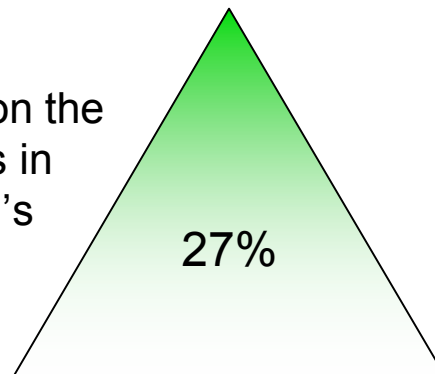
*"How many pages  
in the wiki did you  
actually read?"*



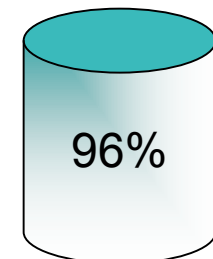
created "empty links"

- 
- Less than 10: 15%
  - 10-20: 27%
  - 20-30: 23%
  - More than 30 : 35%

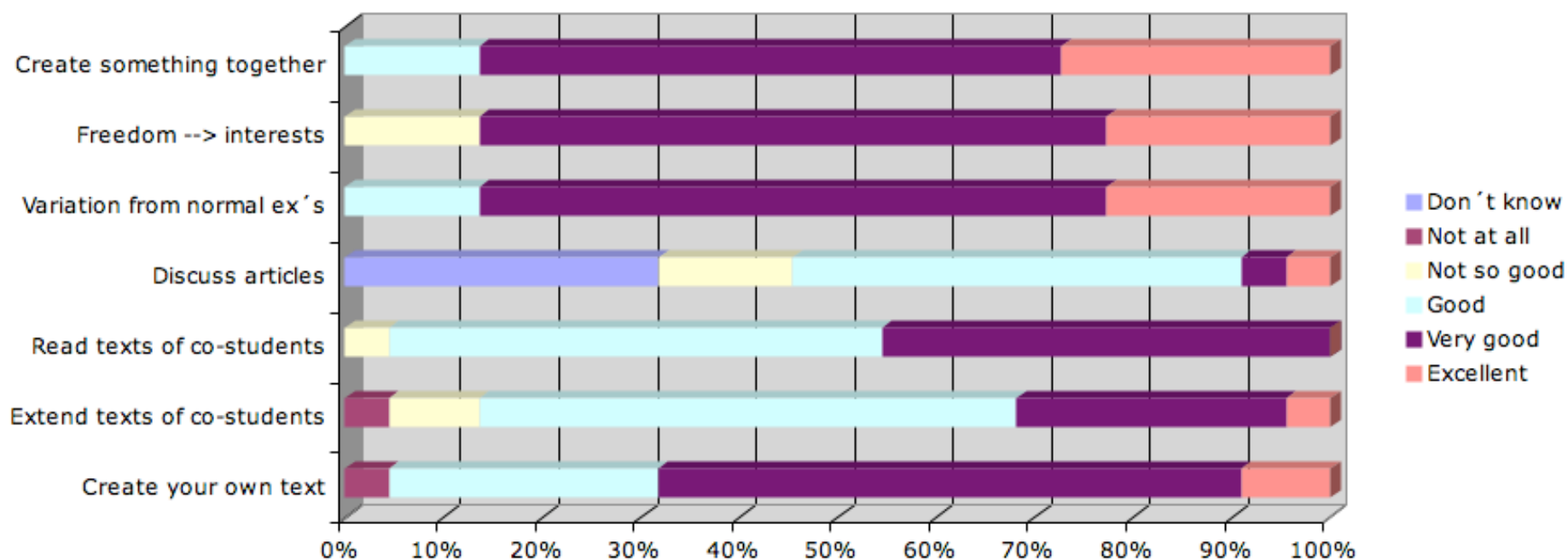
reflected on the  
6 levels in  
Bloom's  
tax



no technical  
difficulties  
(yes/no)




# Learning effect case 1?

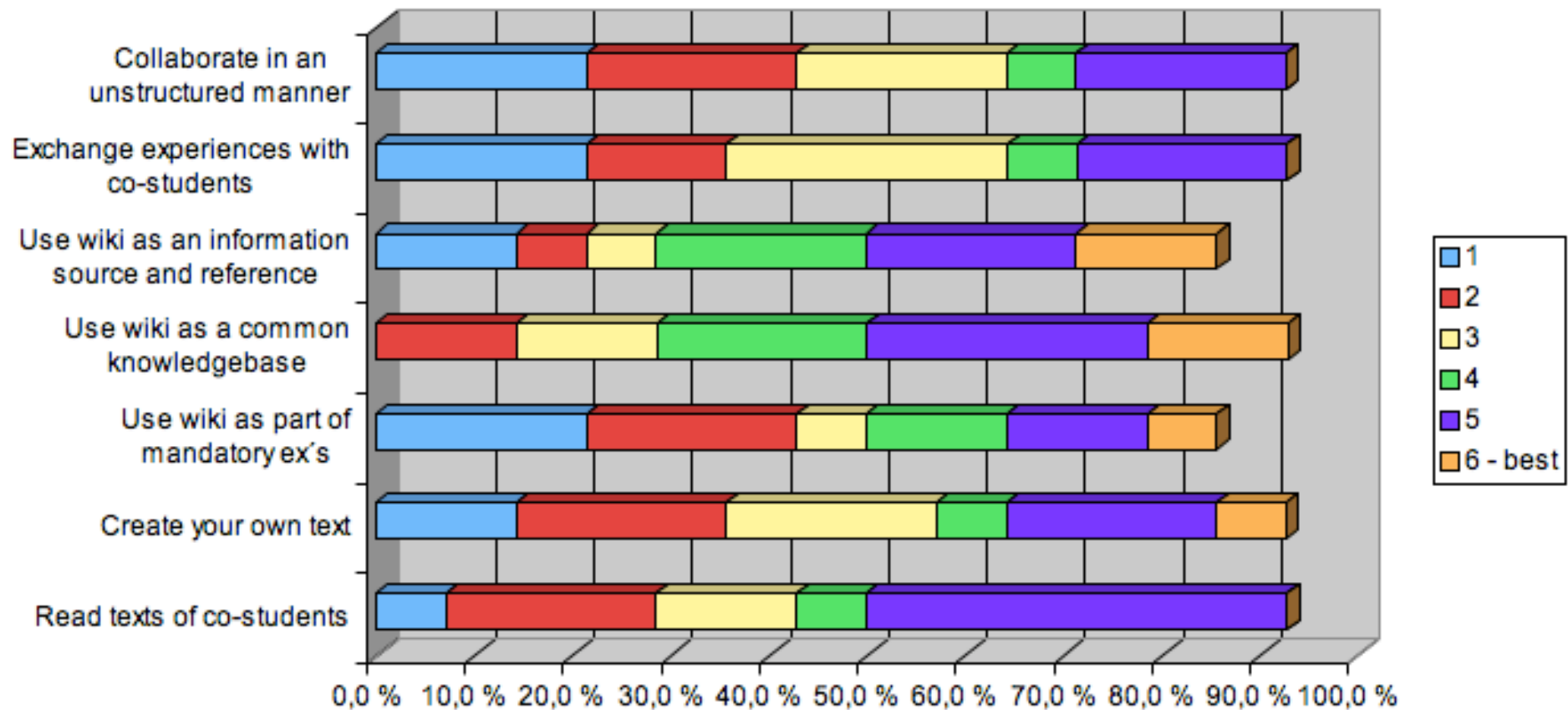


26 answers

# Case 2: Moodle-wiki

- NEW distance course “Web 2.0 with Ajax”
- Autumn 2006: Used 
- Embedded wiki as part of the course exercises
- Student satisfaction was overall ok
- Tried other courses with wiki:
  - Web technology: Mediawiki
  - Internet Security: Mediawiki

# Learning effect case 2? (Moodle-wiki)



Only 14 answers

# Case 3: Group based wiki

- Spring 2007
- Same 3 courses as 2006 (18 of 30 credit points)
- Exercises tightly integrated in the courses
  - Individual multiple choice tests, mandatory
  - Mandatory exercise 1: Create texts in wiki, groups
  - Mandatory exercise 2: Create your multiple choice tests, groups
  - Mandatory exercise 3: Enhance other's wiki contributions
  - Individual traditional exercises, optional
- Well defined rules

# Essence: Group based wiki

- Each group submitted report with
  - wiki links (to ease teacher work)
  - reflection note

We learn a lot  
through writing and  
reading what others  
have written

Maybe someone else has  
explained the subject  
better in the wiki than in  
the books

It is increasingly  
difficult to find new  
subjects to write  
about, since we  
cannot make  
duplicate subjects in  
the wiki...

We believe that the  
wiki will be quite a  
nice tool in these  
courses



# Discuss!

- Interdisciplinary?
- Using wiki as a tool to prepare for an exam?
- One wiki for each student group (class) to be used in several courses? e semestre?
- Clear the wiki each time?
- Group work?
- Cooperative or collaborative?
- Open or Closed?
- Anonymity?
- How to stimulate self-driven activity?
- Using wiki to extend the curriculum?
- Good examples on use?
- Technical challenges?