

A research perspective:

Young children's learning and digital competence with tablets

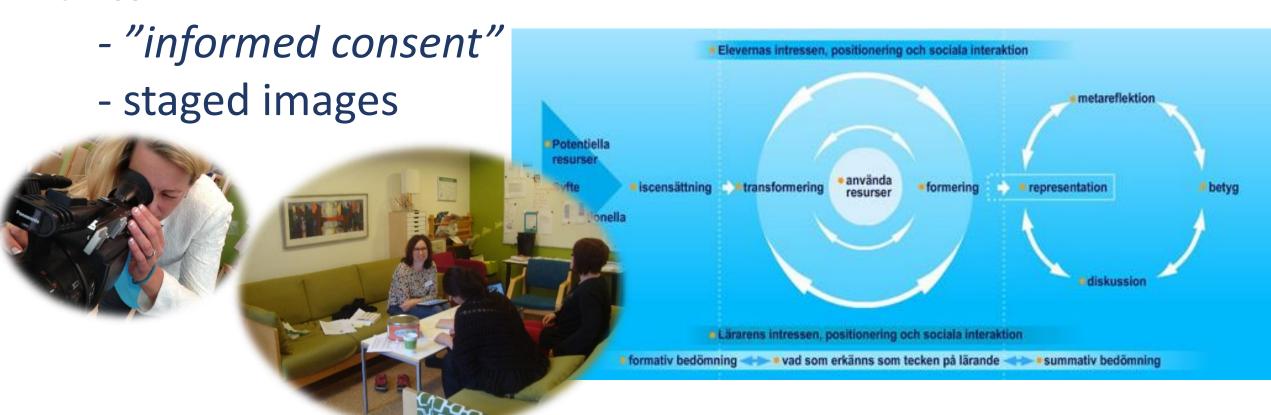
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SOCIAL SEMIOTIC, MULTIMODAL PERSPECTIVE



"Designs for Learning"

• Ethics:



Digitala lärresurser och Learning Design Sequences i svensk skola – brukarperspektiv



School

Boka redan nu upp den 18 december

Entreprenörskap, Uppsala och framtiden – slutkonferens för Gnistan

Gnistan – entreprenörskap i utbildning



AppKnapp – peka, lek och lär i förskolan





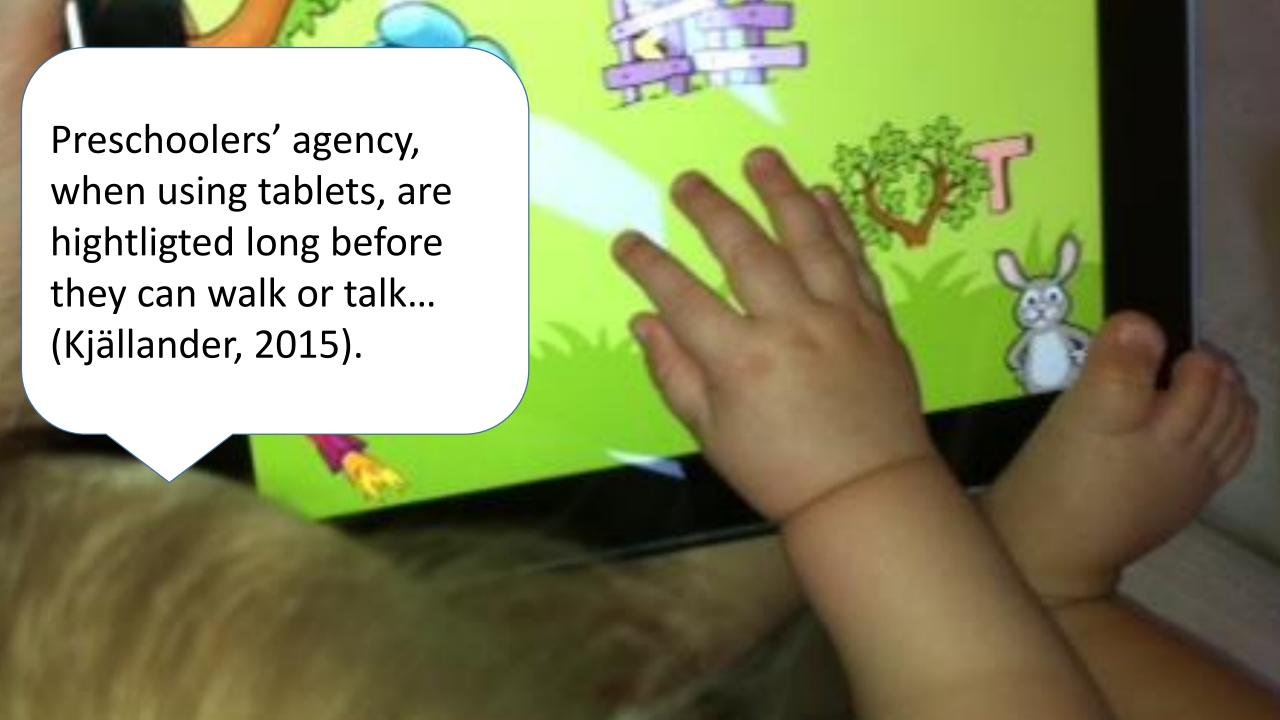
Hjärnvägar i förskolan



Plattan i mattan – didaktisk design och digitala pekplattor i förskolan

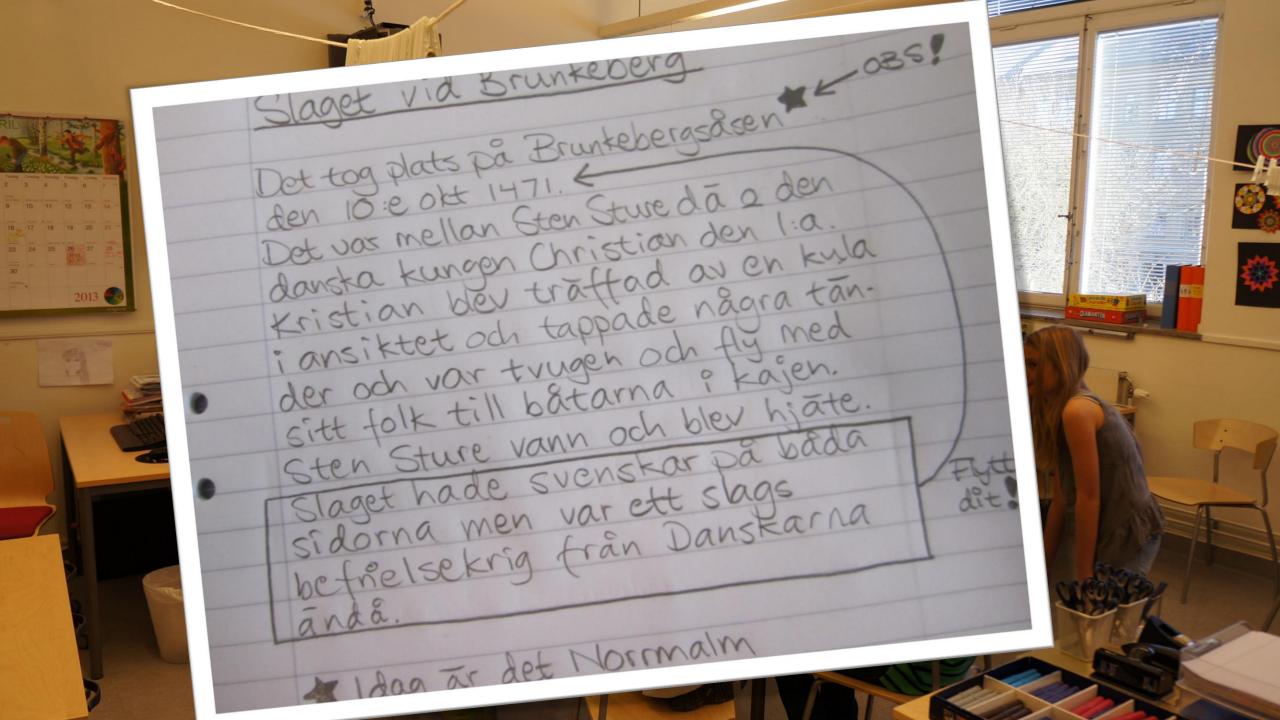
















Write and think sin

Lots of signs/mode

Affordances

Print is, literally, being pushed off the page





- Non linear reading
- Hypertext
- Multimodal
- Prompts

MULTIMODAL LITERACY

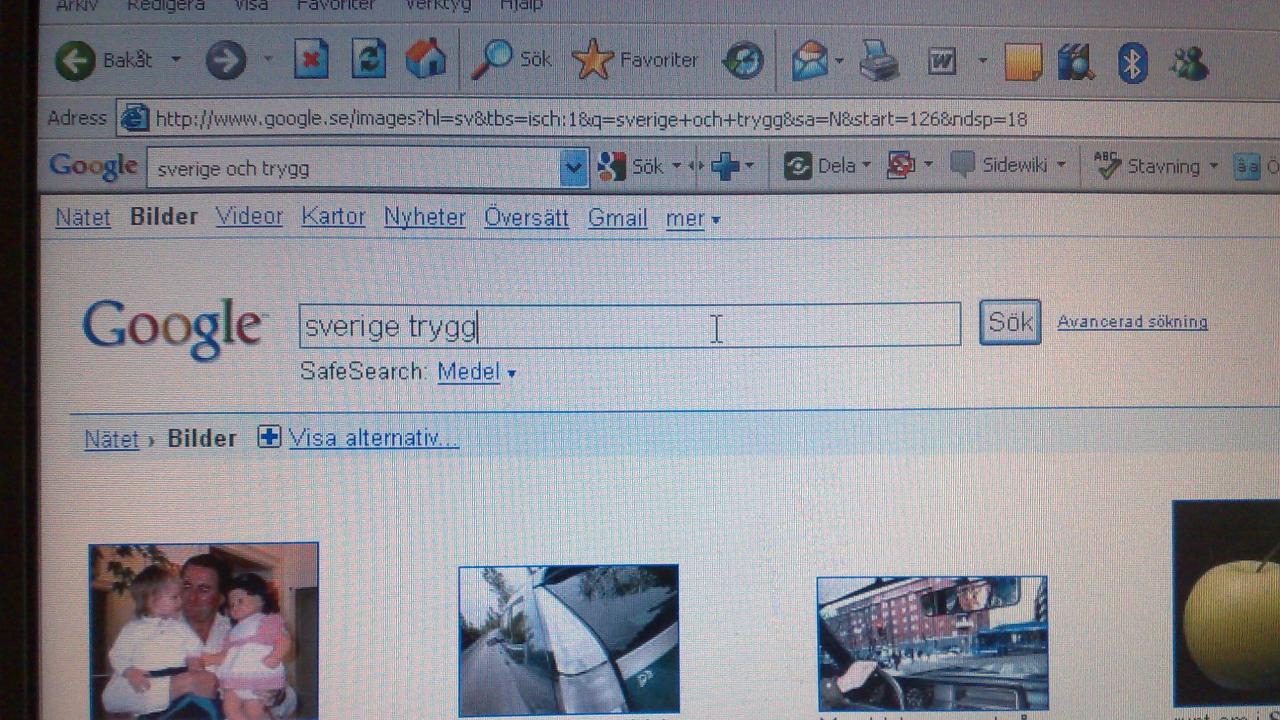


Teacher: This work is about challenging or confirming myths about Sweden...

Information
Mått 587 (b) x 50
Upplösning: Justerbara
Filstorlek: 62 kB
Hämtningsbara fil... 9348
Namn: 00432183
Format 1534
Omdöme: Nyckelord: arkitektur, byggnader, Göteborg Läppstiftet, Malmö, Poseidon, s Skandinavien, Stadshuset, stats Sverige, Turning Torso

Visa liknande bilder
Utforska n

Sweden is a safe country!





Vår myt: Sverge är ett trygg GOINCIDENTIAL BUT

Vi har sökt information på internet. Vi har på Google. Det an ONA lugnt land. Det är inte krig och inte så mylet Robbuction



Och VOLVO är en trygg bil. Vi har

kommit fram till att Sverge är ett tryggt land.

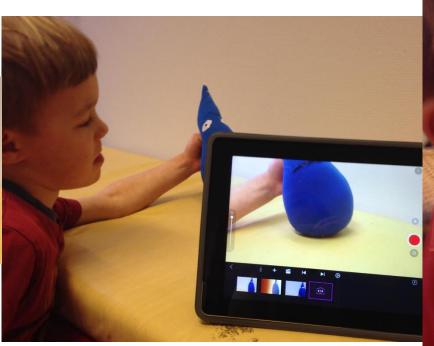


PRODUCERS, NOT CONSUMERS



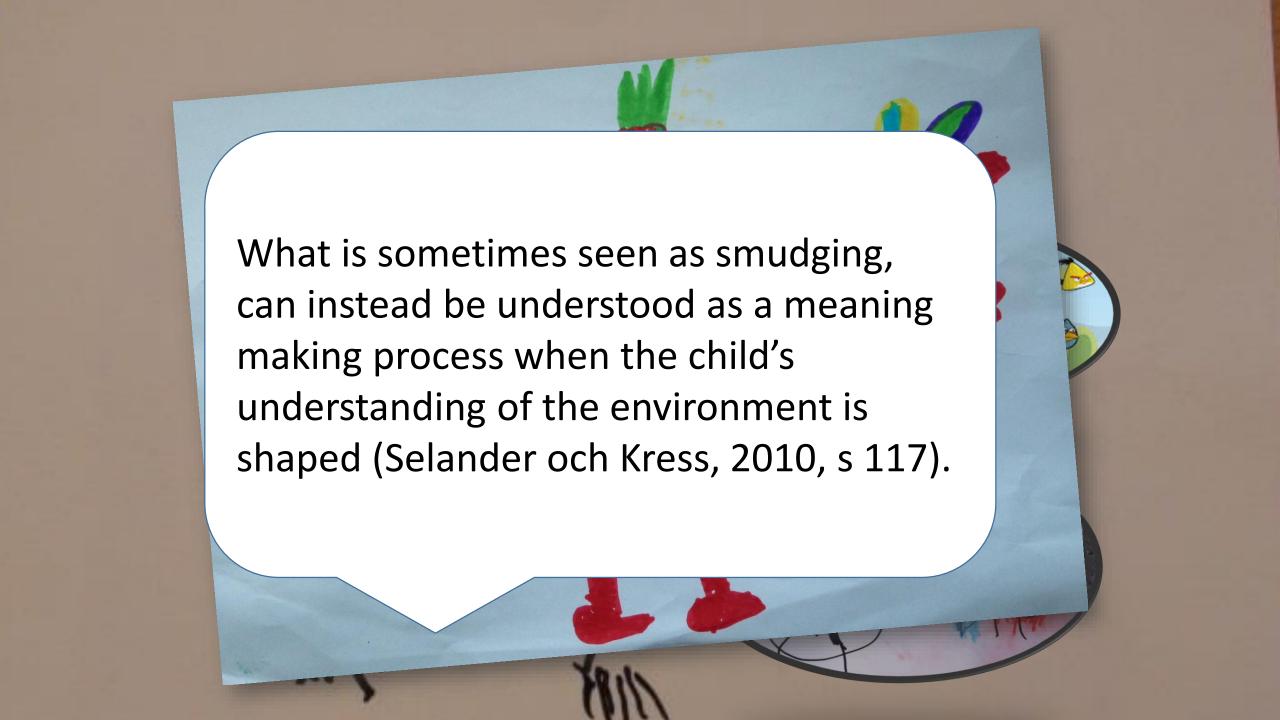
Producing digital storytelling and stop-motion-films







- instead of **consuming** film



COMMUNICATION RATHER THAN CONVENTION



Use the pistol! Take the sword!

Filibonka!



NOOOO, NOT that sprayer, not that cutter, take that bomber!





TODDLERS' COMPUTATIONAL THINKING IN PLAY



The aim with computational thinking (Wing 2006) is not that toodlers shall tap code per se, instead, programming tasks create new insights. Computational thinking is trained in play and staged in coding apps for children, but also in the extended digital interface where children, for example, program plastic robots and pretend to program each other with physical commands such as printed arrows... (Kjällander, forthcoming).



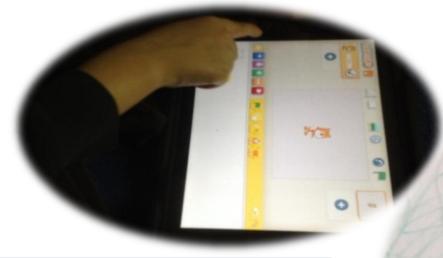






PROGRAMMING WITH THE AIM TO DEVELOP COMPUTATIONAL THINKING





Teacher: All children shall have the opportunity to develop an understanding of that humans lies behind the computers, mashines and robots actions.





 the confident and critical use of Information Society Technologies for work, leisure and communication. These competences are related to logical and critical thinking, to high-level information management skills and to well-developed communication skills. At the most basic level, ICT skills comprise the use of multi-media technology to retrieve, assess, store, produce, present and exchange information, and to communicate and participate in networks via the Internet. (European Commission, 2006, p. 14)





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DIGITAL COMPETENCE IN PRESCHOOL: A QUESTION OF DIGITAL SKILLS?

- Write letters and sentences
- Paint and draw
- Photographs and manipulate photos
- Make videos
- Make music
- Construct games
- Program
- Create stories, books, photo albums
- Document their own learning
- And so on...



TRANSFORMED RESEARCH





DIGITAL COMPETENCE IN PRESCHOOL: A QUESTION OF SOURCE CRITISISM?

- Oral information search
- Watch photos and video clips (instructional videos)
- Listen to music and books

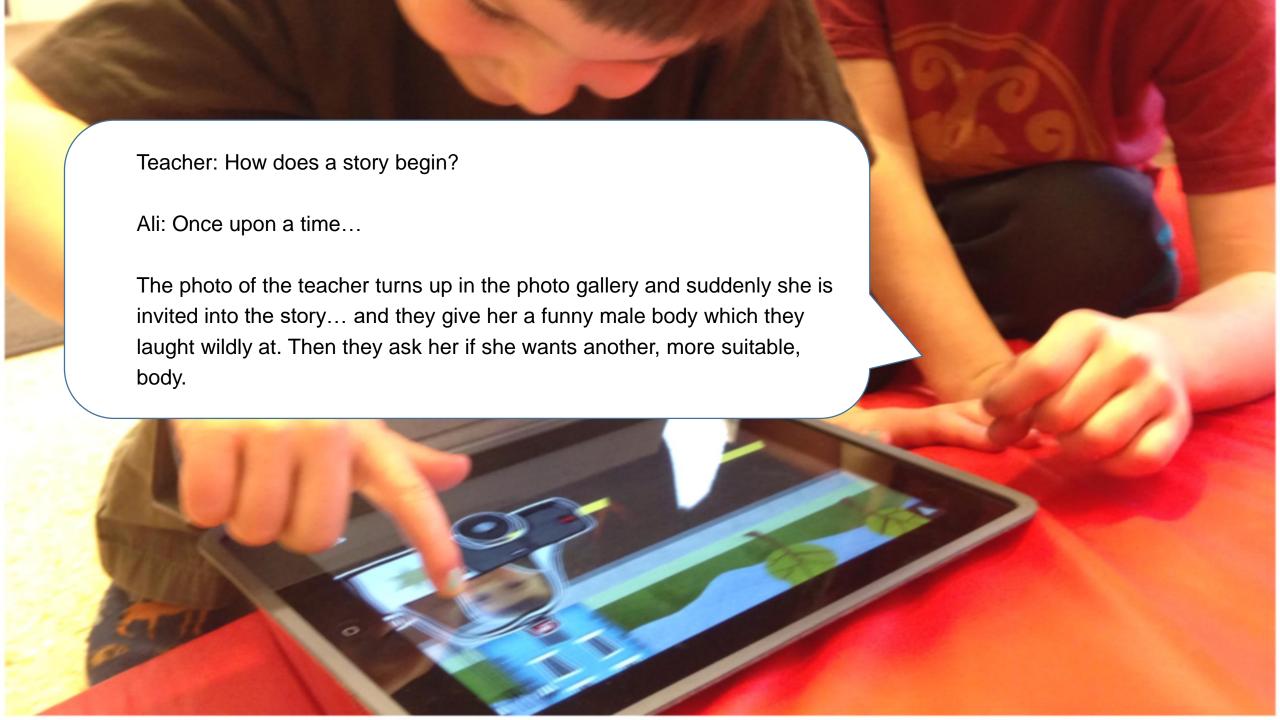




DIGITAL COMPETENCE IN PRESCHOOL: A QUESTION OF ETHICS?

- Consent on photos and film
- How to present a person in digital images
- The balance between fun and teasing
- The balance between play and learn





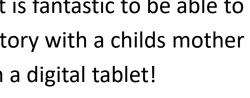
DIGITAL COMPETENCE IN PRESCHOOL: A QUESTION OF EQUITY?

- Democracy/App-gap
- Mother tongue
- Settings and specific needs



INCLUSIVE **SETTINGS**

Teacher: It is fantastic to be able to "read" a story with a childs mother tongue on a digital tablet!



Teacher:

"Att ganska små barn uttrycker sig med engelska ord som man gör till svenska. Alltså dom pratar om scora, alltså att man får poäng."

"Mm, ja just det."

"Mmmm."

"Man failar."

"Ja, just det faila är ju något såntdär väldigt tydligt.

"Levla. (Skratt)"



APP GAP



Preschool shall bridge the digital gap by inviting all children to a digital environment with quality.



