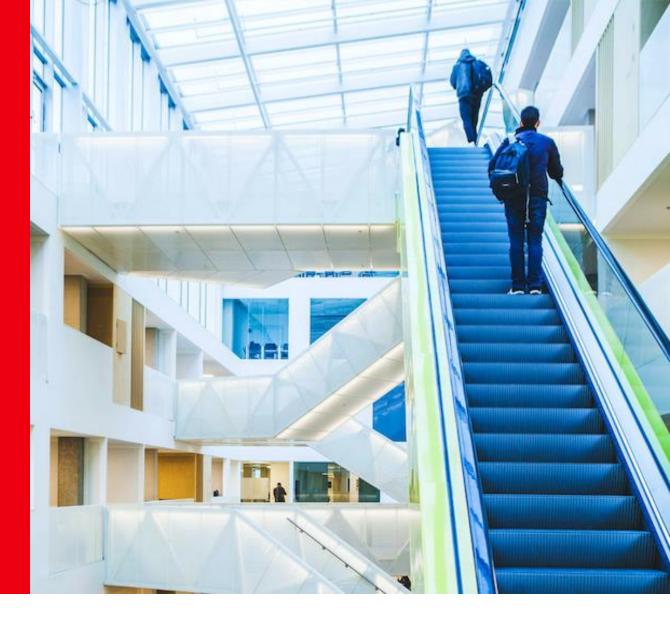
Digitale Geletterdheid en Games

31 januari 2024

Teresa de la Hera Erasmus Universiteit Rotterdam

Martijn Koops Hogeschool Utrecht





HIER KOMT Alles Samen

Inhoud

Wat willen we met Digitale Geletterdheid?

Martijn: Project Digitale Geletterdheid en Digitale Didactiek HU

Is there a game for that?

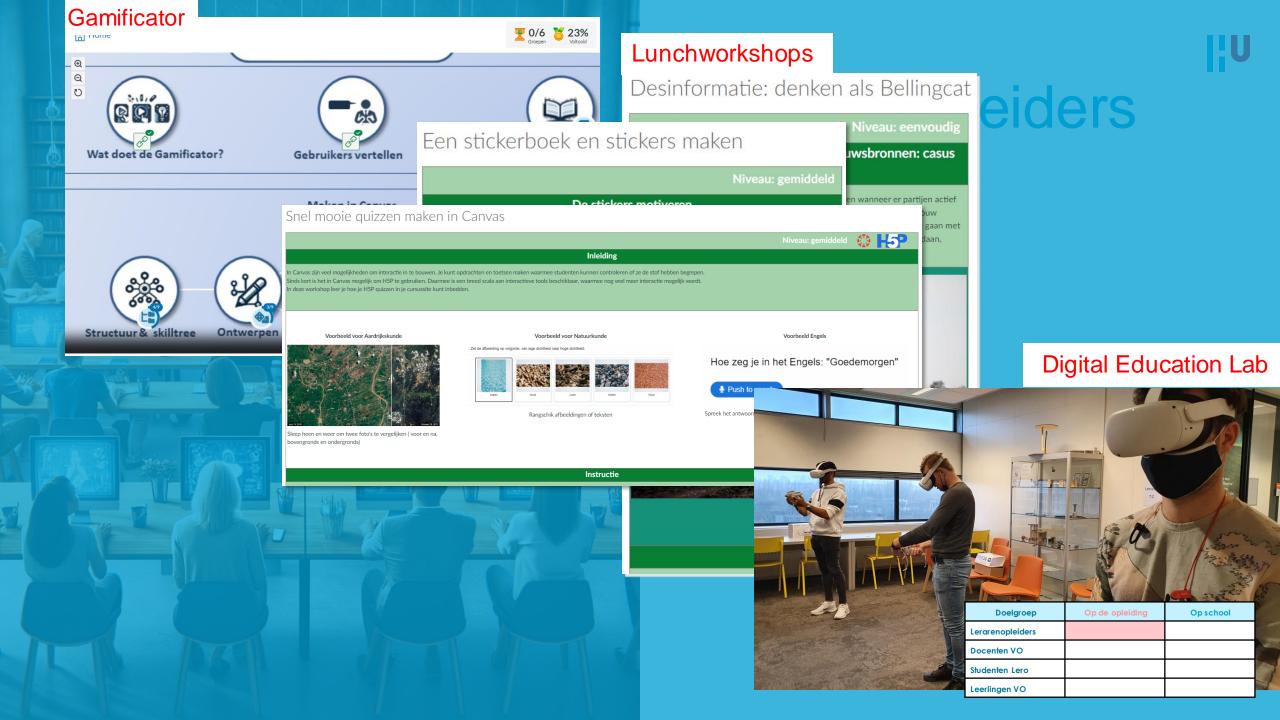
Teresa: Onderzoek Games voor Digitale Geletterdheid



Project DGDD Digitale geletterdheid en digitale didactiek

Doelgroep	Op de opleiding	Op school
Lerarenopleiders		
Docenten VO, MBO		
Studenten Leraren opleiding		
Leerlingen VO		





Verrijk jouw lessen met EdTech

Today's Teaching Tools is het gratis ontwikkelplatform voor en door docenten.

Ontwikkel jezelf op het gebied van digitale geletterdheid, digitale didactiek en

mediawijsheid door middel van praktische online cursussen en



Doelgroep	Op de opleiding	Op school
Lerarenopleiders		
Docenten VO		
Studenten Lero		
Leerlingen VO		



Vakdidactiek

Doelgroep	Op de opleiding	Op school
Lerarenopleiders		
Docenten VO		
Studenten Lero		
Leerlingen VO		

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Vakdidactisch handelen

& digitale didactiek

TPACK model, Open Education Resources & Creative Commons Licences

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Digital Education Lab

Leerlingen VO

Doelgroep	Op de opleiding	Op school
Lerarenopleiders		
Docenten VO		
Studenten Lero		
Leerlingen VO		



727.50

Gamedidactiek

DIGITALE GELETTERDHEID & EDUCATIEVE GAMES



GAMEDIDACTIEK VOOR LERAREN: MAAK JE EIGEN SPEL! Post-bachelor | Cursus | 3 Maanden





Games en Digitale geletterdheid in de les?

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Woord aan onderzoeker: Teresa de la Hera

Digital literacy games: Digital games designed to support digital literacy skills acquisition

Jeroen Jansz, Julia Kneer, Teresa de la Hera Erasmus University Rotterdam, The Netherlands

René Glas, Jasper van Vught, Timo Fluitsma Utrecht University, The Netherlands

Salvador Gómez-García Complutense University of Madrid, Spain

> Laura Cañete Sanz University of Murcia, Spain

Nuria Navarro-Sierra King Juan Carlos University, Spain





Erasmus Research Centre for Media, Communication and Culture



Utrecht University

Universidad Rey Juan Carlos







Digital literacy games: Digital games designed to support digital literacy skills acquisition

This project was funded by the Dutch Nationaal Regieorgaan Praktijkgericht Onderzoek SIA, part of the Dutch Research Council (NWO), within the framework of the KIEM GoCI innovation programme.

Game Analysis

Thematic analysis of 100 media literacy

games and formal analysis of 12 games. Findings discuss presence of certain topics themes and competencies in the dataset, as well as prevalent design choices.

Glas et al. (2023). Literacy at play: An analysis of media literacy games used to foster media literacy competencies. *Frontiers in Communication, 8*

Literature Review

Systematic literature review of

papers published on the topic of digital literacy games between the years 2005 and 2021 and stored in Scopus

31 papers published

de la Hera, T. et al (In Prep). Digital literacy games: A systematic literature review

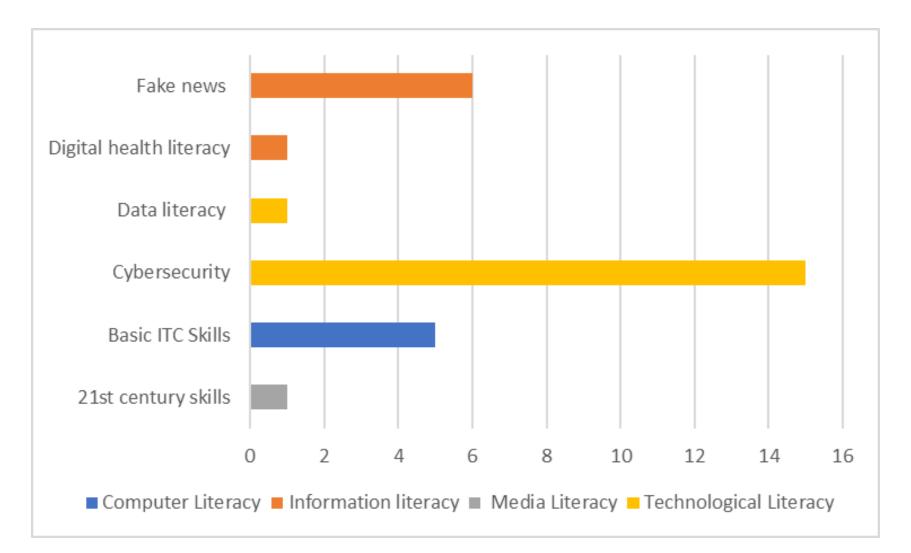
Study on effects

Evaluation and validation of the effects of actual classroom use of the digital literacy game Interland on **secondary education Dutch students**

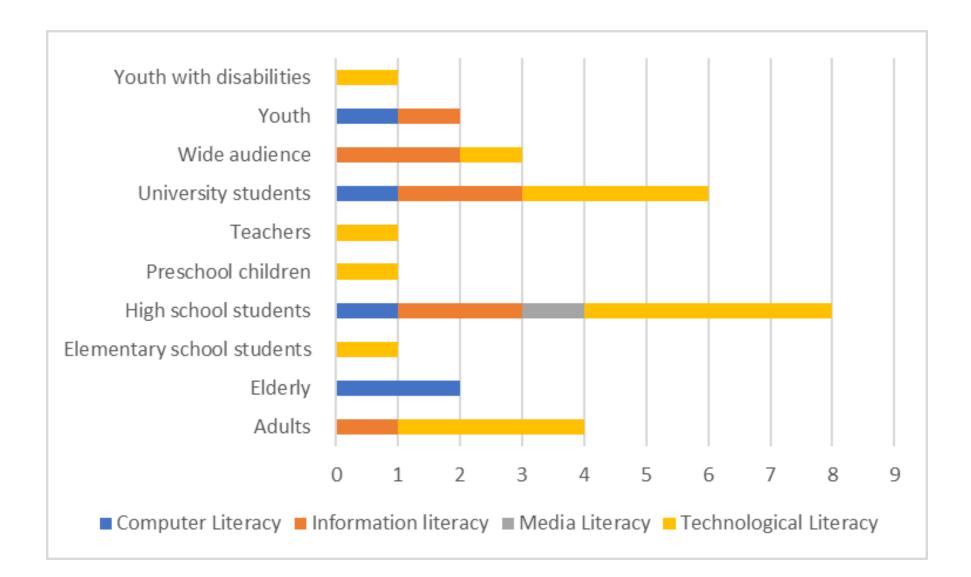
Kneer, J., Partous, M., Jansz, J., de la Hera, T. (In Prep). I know phishing – it is catfishing!? Playing video games for digital literacy and the role of enjoyment, achievement and competition



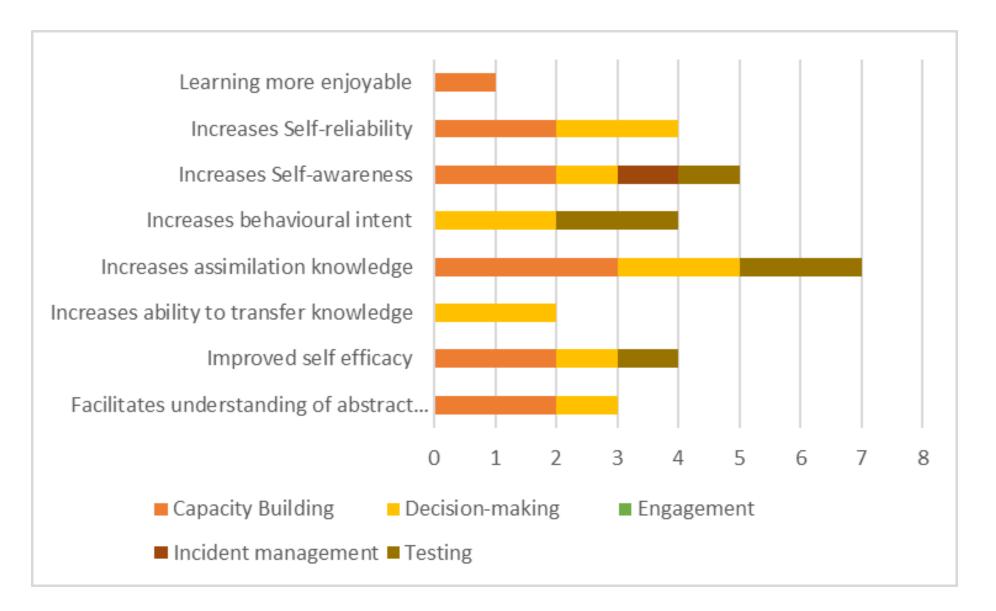
Topics



Target Groups



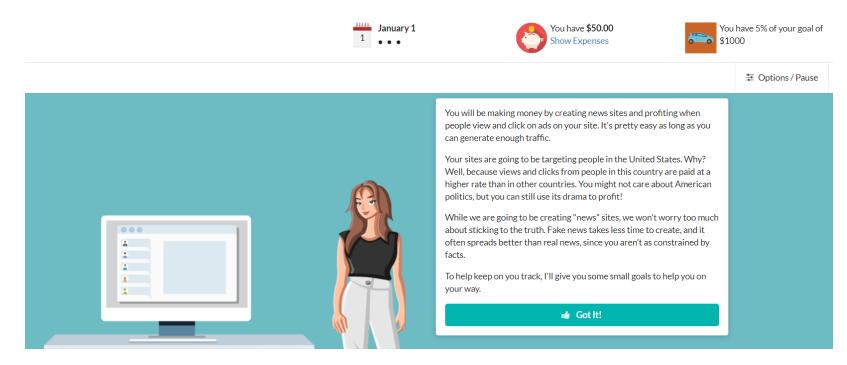
Reported positive effects



 Visualization: visualization is a powerful design resource to facilitate the understanding of <u>abstract</u> <u>concepts</u> in digital literacy games. For example, in the game Cookie Mania, the visual representation of cookies has been used to help players understand the meaning of this abstract concept. This is an effective design approach to support assimilation of knowledge.



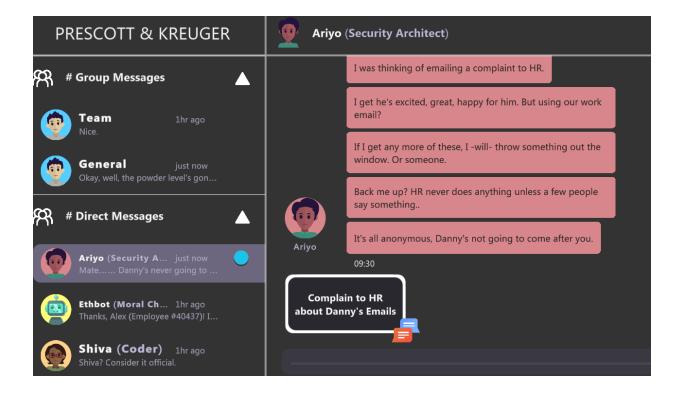
 Realism: Realistic simulations have a significant role in <u>identification</u> of the player with the game character. Familiarity with situations in the game and available resources to be used for <u>assimilation of</u> knowledge and critical thinking



https://www.fakeittomakeitgame.com/

• Scalability: Digital literacy is intrinsically connected to technological developments. For this reason digital literacy games may become easily outdated. For this reason designing games that use a flexible game design that allows scalability is important to ensure they can be <u>adapted</u> to new developments.

• Ethical decision-making: It has been proven that implementing moments in the game in which players need to take decisions that involve ethical considerations foster <u>further investment and care of players</u> towards the game narrative



Cybersecurity Ethics

• Scenario injects: Scenario injects (including time pressure, escalation, reputation and resource allocation) trigger critical thinking when players are expected to make decisions within the game. This can be used in combination with ethical decision-making as discussed in the previous point.

• Diverse play or personalization: the effectiveness of digital literacy games seems to be <u>mediated by</u> <u>players' previous knowledge</u>. Games that allow personalization and facilitate diverse play better adapt to different player profiles.



The day in the life of Jos

 Agency: taking a constructionist learning approach where users create and not just select plays a role in transferability of knowledge

> Goede naam! Wat wordt je baan bij The Dutch Post?

Hoofdredacteur klinkt professioneel! Goeie keuze.

We kennen iemand in India die nepvolgers verkoopt om je populairder te maken.

Koop volgers

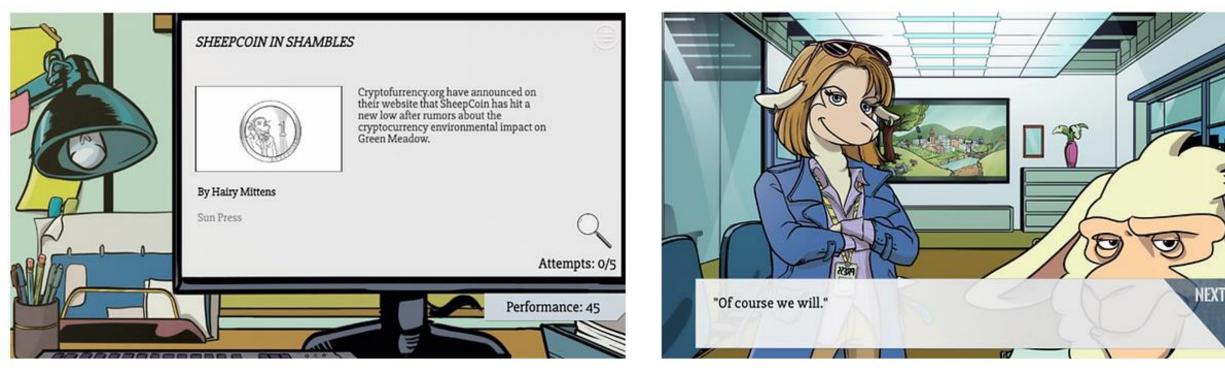
LIKES

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GELOOFWAARDIGHEID

Bad news game

• Facilitate review and debriefing: games that promote discussion among players and facilitate a debriefing moment are successful in promoting critical thinking. Furthermore, the social aspect of the debriefing moment has a significant role in the effectiveness of digital literacy games.



Lamboozled

• **Testing knowledge:** to move from knowledge acquisition to transferability of knowledge it is important to foster <u>self-reliability</u>. Allowing players to test their acquired knowledge within the game has an important role in fostering self-reliability.

• Quick and poignant feedback: feedback, although relevant, is less important in the effectiveness of digital literacy games than other factors such as clear goals and challenge-skill balance. Providing quicker and more poignant feedback makes it more relevant for players.



Thank you

Jeroen Jansz, Julia Kneer, Teresa de la Hera Erasmus University Rotterdam, The Netherlands

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