

“Spiny CACTOS”

OSN Users Attitudes and Perceptions Towards Cryptographic Access Control Tools

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Cryptographic **A**ccess **C**ontrol **T**ools for **O**nline **S**ocial Networks

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2. Disclosure of all content to the service provider

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*Why is it that CACTOS
have seen so little adoption in practice?*

The study

Three parts:

1. Entry questionnaire.
2. Guided tour to *Scramble!*
3. Exit questionnaire.

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Q1 Concerned about SNP-problems?

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The study

Three parts:

1. Entry questionnaire.

Q1 Concerned about SNP-problems?

Q2 Responsible for mitigating SNP-problems?

2. Guided tour to *Scramble!*

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Q1 Concerned about SNP-problems?

Q2 Responsible for mitigating SNP-problems?

Q3 Use a tool to solve SNP-problems?

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+ Introduction to CACTOS properties & SNP-problems

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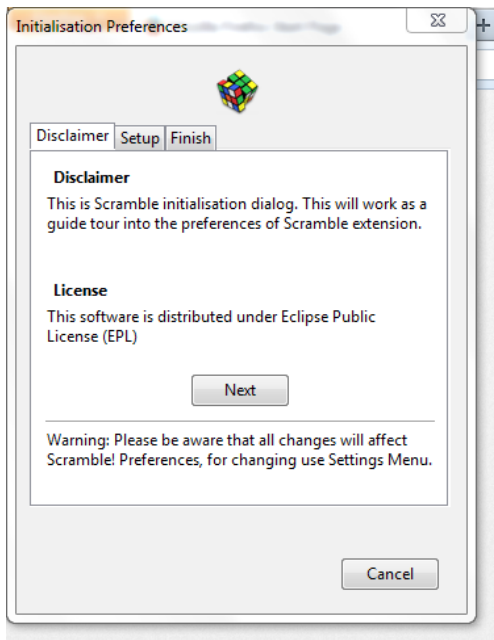
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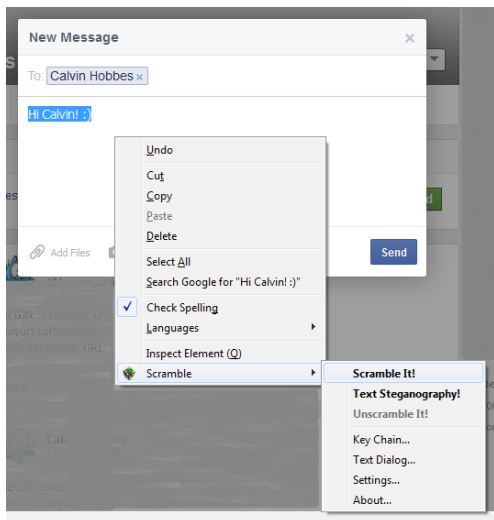
3. Exit questionnaire.

Q4 CACTOS like *Scramble!* appropriate to address SNP-problems?

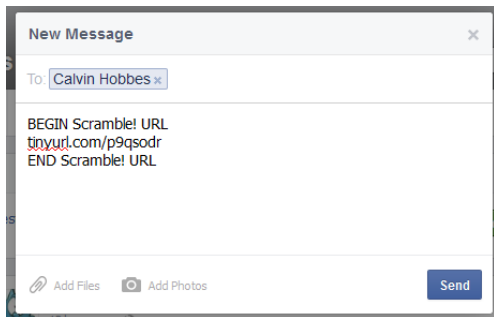
Scramble!



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Scramble!

Facebook interface showing a message conversation with Calvin Hobbes and Loyd Marijn.

Search for people, places and things

Home Find Friends Loyd

Inbox Other More ▾ **Calvin Hobbes** + New Message ⚙ Actions ▾

Search

Calvin Hobbes 10:40pm
+ BEGIN Scramble! URL. tinyu...

Today

Loyd Marijn 10:40pm
BEGIN Scramble! URL
tinyurl.com/p9qsodr
END Scramble! URL

Write a reply...

Add Files Add Photos Press Enter to send Reply

English (US) · Privacy · Terms · Cookies · More ▾

Scramble!

The screenshot shows a Firefox browser window with the address bar displaying `https://www.facebook.com/messages/calvin.hobbes.9693`. The page title is "Calvin Hobbes - Messages". The Facebook search bar is visible at the top with the text "Search for people, places and things".

The message interface is for "Calvin Hobbes" and includes a "New Message" button and an "Actions" dropdown. A search bar is present in the message list. The message history shows:

- A message from Calvin Hobbes at 10:40pm: "BEGIN Scramble! URL tnyu...".
- A separator line indicating "Conversation started today".
- A message from Loyd Marijn at 10:40pm: "Hi Calvin! :)".

At the bottom of the message area, there is a text input field with the placeholder "Write a reply...", a "Reply" button, and options to "Add Files" and "Add Photos". A footer note says "Press Enter to send".

At the bottom right of the page, the footer text reads: "Facebook © 2013 English (US) Privacy · Terms · Cookies · More".

Study Setup

September 2013

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52 CMU students (42% female, average age 21.5 yo)

Results

Results: *Responsibility vs Control (Q1,Q2)*

“Who should decide...?” vs “Who should be responsible for...”

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81% : 24% vs 67% : 52%

More on responsabilisation

“What do you feel responsible for?” (Open question)

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“What choice do I have? To trust Facebook.” (Q1,Q2)

Limitations of Facebook's privacy settings (Q1)

“Which privacy problems, if any, do you encounter using Facebook?” (Open question)

Lack of control over privacy settings

Limitations of Facebook's privacy settings (Q1)

“Which privacy problems, if any, do you encounter using Facebook?” (Open question)

Lack of control over privacy settings **YES!**
Deleting info (indexing)

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Facebook tracking

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Lack of control over other people's activities **NO...**

Facebook tracking **NO...**

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What, if anything, did you like about Scramble?

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What is the difference between what Scramble! does and the privacy settings of Facebook?

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What, if anything, did you like about scramble?

The idea behind it!

Conclusions

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Thank you!

Questions?