

Pico Gyazo Study – Information Sheet

Who we are

Pico is an ERC-funded project (grant StG 307244) being conducted at the University of Cambridge (UK). The Principal Investigator is Dr Frank Stajano. This study is being conducted in conjunction with Prof. Toshiyuki Masui from Keio University (Japan). You can contact the team by email at cl-pico-gyazo@lists.cam.ac.uk, or find out more about the Pico project by visiting <https://mypico.org>.

The aims of the research

The inadequacy of passwords is often noted, and many researchers have attempted to provide replacements; yet we still use more passwords today than we ever did. Even when passwords are used correctly, managing them all is an impossibly complex task for most users. The Pico Project aims to address this by developing a usable and secure alternative to passwords.

We have developed an Android app for use with the Gyazo.com website which will allow you to login to the site without having to enter your password. Instead you scan a QR code on the site with the app to automatically log in. The purpose of this study is to determine user perceptions of Pico in comparison to passwords. By participating, you'll improve our understanding of different authentication mechanisms and help us answer this.

How participants have been identified and approached

All Gyazo users have been invited to take part in the initial stage of this study. Depending on how often you log in to the Gyazo site using your password, and whether you use an Android phone, you may be invited to participate in a more detailed study. At present the Pico Gyazo App runs only on Android phones.

What this study involves

Participation involves a number of steps:

1. At the outset you will be asked to complete a brief questionnaire.
2. We'll ask you to install the Pico Gyazo App on your phone. We'll provide a link to the app on the Google Play Store for this.
3. We will then ask you to continue using Gyazo as you normally do for **two weeks**, except by logging in to the site using the <https://pico.gyazo.com> link.
4. At the end of this period we'll ask you to complete a further short questionnaire and you may be invited to take part in a debriefing interview via Skype for an additional reward.

What information will we collect?

Each time you log in to the Gyazo site we will automatically collect data about the steps you take. This will allow us to measure how frequently you log in, how long the process takes and similar information. We will be able to correlate the events with your account. Your username and password will be stored by the Pico app and will be sent to Gyazo when you log in. However, at no point will we be able to access your password, your account or the images you upload.

During the investigation we will store the data in accordance with the UK Data Protection Act. At the end of the study we will allocate a random ID to your data, removing your name and any account details for anonymity. An analysis of the quantitative and qualitative data collected will be used to inform the subsequent larger study and the future development of Pico. We may publish the data we collect in academic publications and will also make it available through the university's data repository (<http://www.data.cam.ac.uk>), but only in pseudonymised/anonymised or aggregate form (without attribution).

Reward

Users who are invited to take part in and complete the detailed study will be rewarded with a gift voucher worth approximately £10 (GBP) depending on currency for use at an online retailer (unfortunately we're not able to offer a cash alternative). Note that not everyone who completes the initial questionnaire will be invited to the trial. Acceptance is at the sole discretion of the researchers.