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# Interdependent Privacy on Facebook

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Submission date: December 2013  
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## Abstract

With the evolution of the online social networks, the incentive to share personal information has grown drastically. Along with the enormous data sharing that exists in today's interconnected world, privacy concerns arise. The privacy of an individual is bound to be affected by the decisions of others, and are therefore to some degree out of the user's control. This phenomenon lays the basis for the term *interdependent privacy*. In this study we will direct our focus to Facebook, today's largest online social network.

Interdependent privacy is one specific part of the privacy issues that exists on Facebook. In order to get a full overview and understanding on this matter, we have looked into different aspects. We have mapped the development of the default privacy settings and the most important features introduced by Facebook over the years, and how these features have affected the users' privacy. We have also looked at human awareness in regard to Facebook privacy, how much they care about their privacy as well as their awareness regarding apps' permission requests.

To map human awareness, we constructed a survey. In order to get a good image of people's awareness we distributed the survey on Amazon Mechanical Turk (AMT). This is a marketplace for work that requires human intelligence. One of the key benefits of using AMT is that it provides one of the largest subject pools, with both diversity and low cost. The survey was available on AMT for 3 weeks, and received a total of 250 responses from 13 different countries. We analyzed these results with focus on awareness of privacy settings (including app settings). We wanted to see if there was a connection between privacy settings, and app settings and awareness of the permissions requested when installing apps.

Our results show that all our respondents at some point have changed their privacy settings, as nobody have their settings set to what is default. The majority of all respondents check their settings 3-6 times a year. When we look at the corner-points, the ones that check them frequently and the ones that have not checked their settings during the last year, we see a clear difference. This gave the basis for two hypotheses that we thoroughly investigated in our report. "The ones that check their Facebook settings seldom do not have as private/secure settings, and do not have as much knowledge about app permission requests as the ones who check their Facebook settings often." and "The ones with many apps have less knowledge about the app permission requests, and less knowledge about the existence of the setting "Apps others use"."

Our research back up both hypothesis. A higher percentage of the ones checking frequently have changed their settings to a more private/secure option. Meaning that they are aware of the settings existence. These users were both younger (almost 10 years) and more active (almost 20% more active) than the ones seldom checks their settings. The ones checking frequently are also to a higher extent aware of the permissions apps request. As well as the setting "Apps others use", which to a high extent regards interdependent privacy. We also looked at the awareness of the permission request for the ones having many and few apps connected to their Facebook. The ones having few apps are more aware of all the requests we have presented in our survey and this group was also more aware of the existence of the setting "Apps others use", in comparison to the ones having many apps connected to their Facebook.

An interesting observation was that the respondents of our survey cared more about what they post (comments, photos, etc.) about others, than about what is posted about them. And that they in general care a lot about this fact. But the knowledge around the definition of the term interdependent privacy as well as the permission the apps request was low.

The result from our research shows that our initial assumptions were correct. Especially that there exists little knowledge around the issue regarding interdependent privacy. Online privacy is a hot topic in media and people care about what is posted about them, still they have poor security/privacy settings and low/no knowledge about the permissions. Are Facebook trying to hide it from the users, cause it goes in conflict with their vision of an open and interconnected world?

## Preface

This study was performed as a specialization project on behalf of the Department of Telematics at the Norwegian University of Science and Technology. The specialization project is part of two main profiles, information security and tele-economics, and this report is the final result of the project and is worth 15 ECTS points. The study was conducted between September and December 2013. The project description was outlined in cooperation with our project supervisor Gergely Biczók at the Department of Telematics.

We would like to thank Gergely Biczók who has guided us through our project, and contributed with helpful ideas, feedback and support. We would also like to thank our project professor Jan Arild Audestad for his helpful feedback, and insightful and motivating comments. In addition to this we would like to thank everyone who answered our survey, and helped us with valuable research information. A special thanks to our friends Aurora Klæboe Berg, Kine Aasjord Omholt and Thomas Normann for sharing the survey on their Facebook page, and making the survey reach out to a wider audience.

Trondheim, December 16, 2013

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# Contents

<b>List of Figures</b>	<b>xi</b>
<b>List of Tables</b>	<b>xiii</b>
<b>1 Introduction</b>	<b>1</b>
1.1 Motivation . . . . .	1
1.2 Problem Description . . . . .	1
1.3 Methodology . . . . .	2
1.4 Limitations . . . . .	3
<b>2 Related Work</b>	<b>5</b>
2.1 Social Network Services . . . . .	5
2.2 The History of Facebook . . . . .	6
2.3 Facebook Privacy . . . . .	9
2.4 Interdependent Privacy . . . . .	11
2.4.1 Privacy . . . . .	11
2.4.2 Interdependent privacy . . . . .	12
2.5 Amazon Mechanical Turk . . . . .	13
2.5.1 The Turk . . . . .	13
2.5.2 Advantages with Amazon Mechanical Turk . . . . .	14
2.5.3 Financial Incentives . . . . .	15
2.6 SurveyMonkey . . . . .	15
<b>3 Facebook Privacy</b>	<b>17</b>
3.1 Privacy on Facebook . . . . .	17
3.1.1 Facebook Settings . . . . .	18
3.2 Default Settings on Facebook . . . . .	20
3.2.1 Development of Default Settings . . . . .	21
3.2.2 Default Settings 2013 . . . . .	28
3.2.3 Default Settings for Teens . . . . .	30
3.3 Facebook Features - Impact on your Privacy . . . . .	32
3.3.1 News Feed . . . . .	32

3.3.2	Facebook Platform - Apps . . . . .	32
3.3.3	Beacon . . . . .	36
3.3.4	Facebook Connect - "Log in with Facebook" . . . . .	38
3.3.5	Places . . . . .	39
3.3.6	Timeline . . . . .	40
3.3.7	Graph Search . . . . .	42
3.3.8	Facebook Removes Search Privacy Setting . . . . .	43
3.4	Zuckerberg's Thoughts . . . . .	43
<b>4</b>	<b>Construction of the Survey</b>	<b>45</b>
4.1	Design . . . . .	46
4.2	How the Survey is Structured . . . . .	47
4.2.1	Facebook usage . . . . .	47
4.2.2	Facebook privacy: settings . . . . .	47
4.2.3	Facebook privacy: personal experience . . . . .	49
4.2.4	Facebook privacy: apps . . . . .	49
4.2.5	Facebook security: settings . . . . .	50
4.2.6	Demographics . . . . .	50
4.3	Distributing the Survey . . . . .	51
4.4	Feedback on the Survey . . . . .	53
<b>5</b>	<b>The Survey Results</b>	<b>57</b>
5.1	Demographics . . . . .	57
5.2	Users' personal experience . . . . .	59
5.3	Investigating Hypothesis 1 . . . . .	61
5.3.1	Never Checked Facebook Privacy/Security Settings During the Last Year . . . . .	61
5.3.2	Checks Facebook Privacy/Security Settings "Once a month" or "Once a week or more" . . . . .	62
5.3.3	Correlation with Hypothesis 1 . . . . .	65
5.4	Interdependent Privacy . . . . .	67
5.4.1	Users' Knowledge About the Term "Interdependent Privacy" . . . . .	67
5.5	Investigating Hypothesis 2 . . . . .	70
5.5.1	Number of Apps Connected to Facebook . . . . .	70
5.5.2	Users' Awareness Regarding App Permission Requests . . . . .	70
5.5.3	Awareness of the Setting "Apps others use" . . . . .	73
5.5.4	Many vs. Few Apps . . . . .	73
5.5.5	Correlation with Hypothesis 2 . . . . .	74
<b>6</b>	<b>Conclusion</b>	<b>77</b>
6.1	Furtue Work . . . . .	80

<b>References</b>	<b>81</b>
<b>Appendices</b>	
<b>A The survey</b>	<b>87</b>
<b>B Survey results</b>	<b>97</b>



# List of Figures

2.1 Facebook icon . . . . .	6
2.2 Engraving of the Turk . . . . .	14
3.1 The development of Facebook users and introduction of new features . . . . .	17
3.2 Default security settings on Facebook November 2013 . . . . .	28
3.3 Default privacy settings on Facebook November 2013 . . . . .	29
3.4 Default settings for timeline and tagging on Facebook November 2013 . . . . .	29
3.5 Default settings for apps on Facebook November 2013 . . . . .	30
3.6 Choosing who can see a status update. . . . .	31
3.7 The message shown to teens when posting to the public for the first time . . . . .	31
3.8 The message shown to teens when posting to the public, except for the first time . . . . .	32
3.9 The application TripAdvisor inside Facebook's App Center . . . . .	34
3.10 Request for permission when installing app anno 2011 . . . . .	35
3.11 Installing TripAdvisor on mobile phone . . . . .	36
3.12 Nearby function on Facebook's mobile application . . . . .	39
3.13 The "Places nearby" feature . . . . .	40
3.14 Example of an activity log on Facebook. . . . .	41
4.1 Front page of the survey . . . . .	47
4.2 Question 21 and 22 in the survey concerning personal experience . . . . .	48
4.3 Question 25, 26 and 27 in the survey concerning Facebook apps . . . . .	50
4.4 Question 28, 29, 30 and 31 in the survey concerning Facebook apps . . . . .	51
4.5 Layout for creating an AMT project . . . . .	53
4.6 The design and layout of the survey on AMT . . . . .	54
4.7 Our HIT is published . . . . .	55
4.8 Daily distribution of number of answers from AMT . . . . .	55
4.9 Daily distribution of number of answers from Facebook . . . . .	56
5.1 Total distribution of the participant's country of origin . . . . .	58
5.2 Gender distribution . . . . .	59
5.3 Never checked Facebook privacy/security settings during the last year . . . . .	61

5.4	The distribution of question 26-29 regarding app awareness comparing those who have never checked their settings during the last year, and those who have checked their settings "Once a month" or "Once a week or more". . . . .	63
5.5	Checks Facebook privacy/security settings "Once a month" or "Once a week or more" . . . . .	64
5.6	Question 25 - Displaying the distribution of number of apps among the 250 respondents . . . . .	70
5.7	Question 26 - Displaying the awareness of the fact that all apps access your basic information . . . . .	71
5.8	Question 27 - Displaying the awareness of the fact that a significant portion of apps post on your behalf . . . . .	71
5.9	Question 28 - Displaying the awareness of the fact that some apps access your friends' private information . . . . .	72
5.10	Question 29 - Displaying the awareness of the fact that some apps access relational information . . . . .	72
5.11	Question 30 - Displaying the awareness of the setting "Apps others use" among all of the 250 respondents . . . . .	73
5.12	App awareness - Comparing those with many app and those with few apps . . . . .	74
5.13	Awareness of the setting "Apps others use" - Comparing those with many app and those with few apps . . . . .	75

# List of Tables

3.1	The settings that exist on Facebook [1]. . . . .	19
3.2	Changes in the default privacy settings on Facebook from 2005 until today [2, 3].	21
3.3	Facebook Connect Features [4, 5]. . . . .	38
5.1	Peoples thoughts of what is meant by interdependent privacy before and after answering questions about privacy issues regarding the use of Facebook apps.	67



# Chapter 1

## Introduction

### 1.1 Motivation

Today's largest online social network, Facebook, has increased drastically in popularity since it was introduced, and people share enormous amounts of information. During the lifetime of Facebook there has been a major change in the privacy and security settings. At the same time Facebook's features have been significantly upgraded (e.g., Apps), and the platform itself has expanded to several different platforms (e.g., iOS and Android). Owing to this development, the complexity of privacy-related issues has made the originally embedded privacy requirements inadequate. This makes it interesting to look into privacy issues related to Facebook, and find out how aware people are of the existence of the various settings. Facebook has for many also become a sort of "snopping"-tool and it is therefore important that the users are able to protect the information they do not want shared with the public.

Interdependency is a reciprocal relation between two or more decision-making entities, whose actions have consequences for each other. Interdependency is a very important issue when it comes to social networks, since your privacy is affected by the decisions of others. Applications on Facebook introduced a whole new dimension to the privacy issues and in particular issues regarding interdependent privacy. It is therefore interesting to look at people's awareness when it comes to the information they share with apps, and how apps utilize this information. Previous studies have shown that the apps' permission requests is often ambiguous, and that the permissions often goes against the users' privacy settings [6].

### 1.2 Problem Description

Based on our motivation we did research and conducted a survey in order to answer the following questions:

1. What kind of settings does Facebook offer today?
2. How have the default privacy settings on Facebook evolved over time?

3. What are the default settings today?
4. What kind of features have Facebook introduced that at some point have affected the user's privacy?
5. How aware are the users of the settings on Facebook, and how often do they check them?
6. To what degree do people care about what they post about others (photos, comments etc.), and what others post about them?
7. To what degree are people aware of the different permissions Facebook apps request, and do they know the meaning of the term interdependent privacy?

### 1.3 Methodology

Our assignment is divided into parts, where one consists of collecting data from Facebook users regarding their view on Facebook privacy settings, and the other is a theoretical research of how Facebook privacy settings has evolved since the introduction of Facebook. This means that we have used different approaches to be able to retrieve the information desired.

In this section we will describe our approach of collecting data from Facebook users regarding their view on Facebook privacy settings. Facebook is a global social network, so to be able to get more accurate information it is important to reach out to a wide and diverse audience. We decided to use Amazon Mechanical Turk for this purpose. To gather the data, we made a survey for the users to answer. Survey is a common used research method that involves the use of standardized questionnaires or interviews to collect data about people and their preferences, thoughts and behaviours in a systematic manner [7]. Survey, as a research method, has several advantages in comparison to other methods of doing research. Survey is a good method of retrieving unobservable data, like for example peoples attitudes, behaviours, characteristics, preferences, and demographics. Surveys are great when you want to cover a large group of people, like a country, that otherwise would be difficult to observe. With large groups and large amounts of data, surveys allows small effects to be detected, and makes it easy to compare the subgroups that may appear. Survey are in an economically sense cost effective. It is a lot cheaper for a researcher to make and send out a survey than to use other methods like experimental research. Survey as a research method also has some disadvantages. The method is often exposed to biases, like sampling bias, non-response bias, and social desirability bias. Surveys have a reputation for low responses, hence the non-response bias. This was one of the reasons for choosing AMT as a platform for publishing your survey.

We started by implementing the survey in Amazon Mechanical Turk (AMT), but learned that the templates provided by AMT was missing some of the features we wished to include,

like dividing the questions into several pages. So mainly for design purposes we chose to create our survey in SurveyMonkey. This is easily integrated with AMT and a often used option. Using SurveyMonkey also made it a lot easier to keep track of answers and see summaries. SurveyMonkey has a great and easily understandable user interface, and made it easy to share the survey to other mediums like Facebook, to reach out to an even larger and more diverse audience.

In AMT we set the requirements that the users had to be "Master Workers". This is users that through a good reputation has earned the title, and by setting this requirement we rule out unserious users and answers. This will save us a lot of time in the screening process. When a user chooses to take our survey, they first get some information about the purpose and incentive of the survey, and a link to SurveyMonkey to take the survey. When the survey is finished the user receives a code that they have to provide before submitting their HIT in AMT. This is an assurance for us that all users on AMT has finished the survey before they get paid. Throughout the lifetime of our survey we have changed this code, just to make sure that nobody tries to get paid without actually doing the work. When the survey is completed in a serious manner the workers get paid \$1,5. On average, the users spent 13 minutes and 24 seconds to take the survey, this gives an effective hourly rate of \$6,7.

## 1.4 Limitations

Our main limitation is the amount of time available to finalize our specialization project. We only had 4 months at our disposal. Our research analysis is based on the 250 responses we got on our survey. This is not enough to get a full and accurate image on the research area, but give a solid basis for further work. The amount of money granted for conducting the research was also limited, this mean we could not pay an unlimited amount of workers on AMT. In addition to this, it is not an infinite number of workers available on AMT. If we were to reach out to even more people, we would need to use several different arenas. Our results are based on the analysis from the survey. We did not implement anything or create a "tool" in order to cover a wider field in our research. Even though we distributed our survey on AMT and Facebook, it is up to the user whether or not to take the survey. We had no control over the users' intentions. A normal problem with surveys is that there exists no way for us as researchers to verify that the respondents have answered in a truthful and proper manner. Another factor to have in mind, is the overlooking of valuable research data when conducting an analysis.



# Chapter 2

## Related Work

### 2.1 Social Network Services

A social network service (SNS), is a platform used to establish social networks of different people. These people often share a common interest or activity [8]. Online social networks (OSNs) is a large part of the social network services. From online social networks was first introduced until today, the popularity and complexity has grown drastically, with a hundreds of millions active users [9]. OSNs have a peer-to-peer architecture, and therefore makes it easy for members to initiate communication with whom they want, given that they are also connected to the network. OSNs also enables the possibility for people to easily publish and retrieve information about subjects of interest [10]. The internet has caused the creation of several information sharing systems [11]. Among these systems are the Web and OSNs. As mentioned before, the popularity of OSNs has grown drastically, and have become among the most popular sites on the Web. With this change, there has also been a change in what is centralized and in focus. The Web is to a large extent organized around content, while OSNs on the other hand are organized around users. This change has lead to the importance of understanding user behaviour. You can say that the expansion of OSNs has lead to a shift in how context is exchanged over the Web. End users are no longer just content consumers, but now also required to be content creators and managers [12].

A user is often represented with a profile on OSNs. To obtain a profile the user must, in most cases, register with the site [11]. When a user is given a profile, it is normal for the users to provide information about themselves. This information could for example be date of birth, home town, sex, name (or pseudonym) and maybe a profile picture. The social network is formed when users start connecting with each other. The reason for these connections are numerous; real-life friends, real-life acquaintances, colleagues, share an interest/activity or if you are interested in the information contributed by the other user.

Since Facebook was introduced to the public in 2006, it has grown to be the largest online social network (OSN) in the world. The growth of Facebook has made it necessary to

introduce new ways to manage privacy and ensure a secure online environment. The privacy embedded in the program/app etc. is not enough to ensure such an environment, due to the interdependent privacy issues. Your privacy is to a large extent affected by the privacy decision of others. We will come back to the meaning of the term interdependent privacy later in our report.

## 2.2 The History of Facebook

When Mark Zuckerberg (Chairman and CEO of Facebook, Inc.) enrolled at Harvard in 2002, he had decided to major in psychology. *"I just think people are the most interesting thing—other people"*, he said. *"What it comes down to, for me, is that people want to do what will make them happy, but in order to understand that, they really have to understand their world and what is going on around them"* [13]. He showed an interest and passion for connecting people together and create Harvard more open.



Figure 2.1: **The Facebook icon** as we know it today.

It all started in October 2003 when the Harvard sophomore Mark Zuckerberg and three of his classmates created the web page Facemash. Zuckerberg hacked into the administrative database at Harvard to extract the ID photos of all the students of the different houses. The web page presented two and two photos together creating a "hot or not" game for his fellow students. The votes were counted and created a top-ten list of the cutest people in each house. Within the first hour Facemash had 450 visitors and 22 000 votes. After numerous complaints from professors and fellow students, Harvard administration shut down Zuckerberg's Internet connection after a few days. Harvard charged Zuckerberg for violating individual privacy, violating privacy and breach of security for stealing the photos. Zuckerberg agreed to take the web page down and got away with just a warning.

After Facemash, Zuckerberg was known around campus as a programming prodigy. Harvard seniors, Tyler and Cameron Winklevoss and Divya Narendra, had since 2002 been working on a social networking page, called HarvardConnection. This was a page where students could create a profile, and through that share some personal information, post pictures and share this with large and small communities that one could be part of. They wanted Zuckerberg's help to finalize their project so that the page could be up and running before they graduated. Zuckerberg agreed to help at the same time as pursuing his own

projects. Harvard offers a class directory to all freshmen, this directory is also known as the "Facebook". This "Facebook" contains a picture of all the students, as well as name, date of birth, home town and high school. The purpose of the "Facebook" was that the freshmen could get to know each other. Harvard's plan was to eventually get this online. Since Harvard had not gotten to it yet, Zuckerberg decided to do the job himself. He wanted to create a page where people signed up and created their own profiles, and in that way could post some personal information about themselves, and have control over what was posted. After ten days of intensive work, Zuckerberg almost finished the site. The site was kept simple and intuitive, and everybody with a Harvard e-mail address could create a profile. The profile consisted of a profile picture, name and some personal information such as taste in books, music, films and favourite quotes. Users could link to their friend's profiles, and by using a "poke" button let others know that you have visited their profile. Thefacebook went public February 4, 2004, and to get the word spread they sent it out on the Kirkland house mailing list, that contained over 300 students. It did not take long until the other houses heard and within twenty-four hours, close to fifteen hundred people ha registered. "*I think it's kind of silly that it would take the university a couple of years to get around to it*", he said. "*I can do it better than they can, and I can do it in a week.*" [13]. Later the same year the three founders of HarvardConnection, now called ConnectU, filed a lawsuit against Zuckerberg. Stating that he broke their oral contract, stole their idea, and delayed working on their site to be able to finish his own site, Thefacebook, first. Zuckerberg denied doing anything wrong, and stated that he had proof that he did not steal the idea from the HarvardConnection. Just a few months later Facebook filed a countersuit. Facebook accused ConnectU with defamation. The case went on for years. In 2011 the Winklevoss brothers dropped the lawsuit and accepted a 65 million settlement [14].

There was already similar pages out there, like Friendster and Myspace. Especially on Myspace people played roles, giving themselves out to be someone else. Teenage girls pretending to be older and grown men giving themselves out to be young girls. There is nowhere to validate that the person really is who they give themselves out to be. This limits to what extent people posts personal information. With Thefacebook a user had to sign up with a valid Harvard e-mail address. This was an assurance that all the users were actual people, and mostly students. This made it easier to post more personal information like cell-phone number, home address and even sexual orientation. The concern was not about security, but more about wasting time, it became an addictive pleasure.

It did not take long before Mark Zuckerberg began to receive e-mails from other colleges, requesting to get Thefacebook at their schools. The site was easily scalable, the concern rather laid in how to maintain the intimacy and the clubby appeal. When Thefacebook expanded to the colleges Colombia, Yale and Stanford, students were only able to search and see people from their respective college. Only with permission from a student from another college could they add the person to their friend list. This is a key factor to Facebook's

success. Zuckerberg wanted people to post personal information and create a more open school community.

In June 2004, when the school year was over, Thefacebook had expanded to over forty schools, with 150 000 users. With the rapid expansion, the need for investors and more capacity increased. Zuckerberg moved his base to California and removed the "the" from the name. Thefacebook became just Facebook.

October 2005 Facebook expanded to universities in England, Mexico and Puerto Rico, and in September 2005 a high school version was available [15]. This was a big step for Facebook. All high school members needed an invitation to be able to join. Zuckerberg launched the possibility for all users to see the profiles and send friend request to everyone in the network, the older users had strong objections. College students did not like the idea of high school kids looking at their profiles and being able to befriend them. But with the rapid expansion, Facebook was forced to make the site more open and knock down some of the walls dividing the users. Facebook made it possible for employees at different companies like Apple and Microsoft to join the network. At the end of 2005 Facebook was used at over 2000 colleges and at over 25 000 high schools in United States, Canada, Mexico, England, Australia, New Zealand and Ireland.

Up to this point you had to be a student at a college or high school, or employee at a certain company to be able to join the network. After September 2006 everyone over the age of thirteen, with a valid e-mail address, could join. The site was no longer restricted to schools and was now open to the whole world.

By 2009 Facebook had 200 million active users, and was finally getting more users than Myspace, becoming the world's biggest social network [16]. With the release of iPhone in 2007, and the launch of Facebook's mobile application in 2008 a new way of sharing became reality. The mobile application enabled Facebook users to send pictures, status updates and comments in real-time. Facebook introduced the "like" button in 2010, together with the growing application and gaming platform.

The movie "The Social Network" directed by David Fincher and Aaron Sorkin came out in October 2010. It is an American drama movie based on the early days of Facebook's history. The popular movie has received many awards, among them 3 oscars [17].

In April 2012 Facebook announces that they are buying the photo sharing application Instagram for \$1 billion. This was the biggest acquisition that Facebook has done [18]. Instagram just finished a great year with the launching of the android application and a huge growth, with more than 30 million users, and more than five million pictures being uploaded every day [19]. Just a month later Facebook goes publicly listed, another big step for Facebook. Each stock were sold for \$38 dollars, giving the company a market value of

\$104,2 billion dollars, becoming the highest valued company in history. Facebook's market value was almost four times higher than Google's market value in 2004 [20].

**Facebook today** As of September 2013 Facebook has 5 794 employees divided on 13 offices in the United States, and 24 international offices [21]. Worldwide, Facebook has 1,19 billion monthly active users. About 80% of the daily active users (727 millions) are from outside of the U.S and Canada.

## 2.3 Facebook Privacy

There exists numerous articles and papers written on the development of Facebook privacy, and many researchers have tried to map the human behaviour in regard to Facebook through for example the use of surveys. One of these articles is "Facebook privacy settings; Who cares?" by danah boyd and Eszter Hargittai [22]. The paper addresses a survey conducted on a cohort of 18- and 19-year-olds in 2009 and in 2010. The survey focused on their attitude and practice when it came to Facebook privacy settings. During this period, between 2009 and 2010, Facebook made many changes to their privacy settings. This was a turbulent period in Facebook history, with a lot of attention in media.

The demographics collected in the survey described in the paper by boyd and Hargittai was sex, age, race and ethnicity and parents' highest level of education. The latter was used as a "measure" for socio-economic status. The demographics showed a diversity in the people taking the survey. The other data collected in the survey consisted of information within these topics: "Internet experience", "Use of Facebook", "Engagement in certain activities on social network sites among Facebook users" and "Experience with Facebook's privacy settings". Based on their discussion and conclusion, we have highlighted some of their findings:

- Majority of young adults using Facebook have to some degree checked their privacy settings. Number of people who had checked increased from 2009 to 2010. One reason for this may have been the media attention Facebook received as mentioned above.
- How familiar someone is with technology plays a role in how they handle their Facebook privacy settings. The reason for this assumption is withdrawn from the relationship between changing privacy settings and the frequency of Facebook use, as well as Internet skill. Considering the default settings, this is especially important since the least skilled people get more vulnerable when Facebook changes the default privacy settings.
- Among the majority both genders are equally confident in changing their Facebook privacy settings.

danah boyd and Eszther Hargittai concludes, based on their findings, that experience and Internet skill is important to take into account in regard to how people handle their privacy settings on Facebook. It is incorrect to think that the Facebook users have the same approach to the site. This kind of thinking leaves a part of the users more exposed. It is therefore very important that the people who configure the default privacy settings take these users into consideration. They should be aware of the fact that every user is different and have a different basis of understanding.

Another relevant article on the topic of Facebook privacy settings is "Analyzing Facebook Privacy Settings: User Expectations vs. Reality" [12]. It addresses to what degree the Facebook privacy settings match the expectations of the users. To find information about the users view on the topic, they conducted a survey via Facebook with people recruited from Amazon Mechanical Turk (more information on Amazon Mechanical Turk can be found in section 2.5). They got 200 users who completed the survey. The average values for the users were: 248 friends, 363 uploaded photos, 185 status updates, 66 links, 3 notes, 2 videos. Their analysis is centred around two questions, and one of these questions are interesting for us to look at: *"What are the ideal privacy settings desired by users? How close are these to the actual settings that users have?"*

They had some very interesting results on their survey, and these are the ones we wanted to highlight:

- Facebook privacy settings match the users expectations 37% of the time, and when the settings are not as expected they are almost always more open, and exposes the content to a wider audience than desired.
- Modified privacy settings match the users expectations only 39% of the time. This implies that even though you are aware of your privacy settings, you can still have problems configuring them correctly and as desired.
- Nearly half of the content shared by the users are shared with all Facebook users. This was desired 20% of the time.
- When the privacy settings on photos has been changed by the user, the privacy settings on these photos match the users expectations less than 40% of the time.

As mentioned before there exists much material on the topic of Facebook privacy. We chose to shed light on these two articles, because of the similarities in topic and approach to our paper. Later in our paper we will see if we can draw comparisons between the results in these two articles and our own survey result.

## 2.4 Interdependent Privacy

In today's society Internet is no longer a privilege, it is a human right. With the evolution of the online social networks (OSNs) the incentive to share personal information has grown drastically. People create profiles at different OSNs and share personal information, pictures and comments with each other. With the enormous data sharing, privacy concerns arise. The privacy of an individual user is bound to be affected by the decisions of others, and are therefore to some degree out of the user's control. This phenomenon lays the basis for the term *interdependent privacy* [23].

### 2.4.1 Privacy

Roger Clarke defines privacy as *the interest that individuals have in sustaining a 'personal space', free from interference by other people and organisations* [24]. Further Clarke divides privacy into multiple levels; bodily, personal behaviour and information privacy. Bodily privacy is concerned with the integrity of an individual's body, such as blood transfusion without consent, compulsory immunisation and compulsory sterilisation. Personal behaviour privacy relates to all aspects of behaviour, like sexual preferences, and political and religious actions. Information privacy is a collective term including personal communication and privacy of personal data. This includes the ability to communicate, using the desired media without being monitored by others, and claim that data about themselves not automatically should be available to others, even when there is data that should be processed by others.

In this article our focus will be on online privacy, the level of privacy and security of personal data published on the internet. For a user, the privacy and anonymity is the most important factor taken into consideration when using online services. It is a hot topic and now more important than ever, especially when the consequences are unforeseen, and the extent of them are often hard to predict. Biczók and China defines online privacy risks with the basis in Clark's privacy definition as described in the list below [23]:

- Personal: Potential loss of information about a user and the user's behavioural data. This can be done by phishing, hacking to steal secure and sensitive user data, like passwords and pin codes.
- Relational: Revelation of how a user relate to and communicate with others. Spyware is an offline application that can obtain a user's data without the consent of the user.
- Spatial: Invasion of the virtual space of an online user. An example of this can be unwanted comments and posts on a user's blog or social networking page.

## 2.4.2 Interdependent privacy

In today's interconnected world, we share enormous amounts of data every single day. Protecting personal, relational and spatial privacy of individuals is no longer just dependant of only your individual actions, but increasingly depending on the actions of others [23]. With the continuous growing use of social networks, data sharing has become very easy. We share photos, comments, videos, and links. This increasing data sharing arises concerns regarding interdependent privacy.

An example can be if Alice posts and tags a picture of her Facebook friend Bob. Alice finds the picture of Bob funny and sees no problem in posting it. Bob on the other hand, does not share Alice's opinion, he finds the picture embarrassing and inappropriate. Bob wants the picture removed, but by the time Alice comes around to remove it, people have already seen it, and maybe reposted it. Bob's privacy was dependent on what Alice did, and out of his own control.

Sharing information without consent from the users can lead to the emergence of externalities. In economics externalities are defined as the unintended costs or benefits that are imposed on unsuspecting people, and that results from economic activity initiated by others [25]. When the effect is beneficial it is considered a positive externality. A negative externality is when the side-effect is negative. Let us relate this to our example with Alice and Bob. When Alice shares the photo without Bob's consent, it might be at benefit for Alice (in personalized experience), but for Bob it will be received as a negative externality, a loss of his online privacy. Another example of interdependent privacy is the Facebook platform for third-party applications (apps). How your privacy depend not only on your actions, but also on the actions of your friends. We will discuss this in more detail in subsection 3.3.2.

**Related article** The article "Third-Party Apps on Facebook: Privacy and the Illusion of Control" was written in the end of 2011 and looks at the privacy threats with the use of third-party apps on Facebook [6]. In this paper the authors look at what information the third-party applications request when you install them, and how easy it is for an application to retrieve more information from a user than what the user initially wanted to. There has not been done any other studies on this topic before this article was written. Their aim is to increase user control of the data apps' access, and alert the users when the apps' violate your initial privacy setting. When a user wants to add an application, the application is required to ask for permission to access certain information, like your "basic information", which includes name, profile picture, gender, networks, list of friends and other information that a user has publicly available to everyone. Other permissions that apps frequently ask for is "post to my wall", "send me email" and "access my profile information". You can later go to your settings and change what information you share with the apps, but by this time you may already have shared information that you initially wanted to keep private. As an example say that a user, we call her Alice, would like to keep her birthday private and have

stated this in her privacy settings. Alice then install an app called "Happy Calendar", that let her keep track of her friends birthdays. When installing the app, they asked for permission to access hers and her friends' birthdays in addition to her basic information. Alice allows the app permission, to later find out that "Happy Calendar" has created an album with a calendar image showing the profile pictures to all her friends and herself. This album was posted on her wall and Alice's friends received a notification about the album. The birthday that Alice initially wanted to keep private is no longer private. The article states that there should be more evident to the user when the app ask for information that is in conflict with the user's privacy settings. In the article two new designs of the permission approval page are presented and tested. From the tests it was clear that users was not always aware of what they share, and that a more extensive and informative permission-page would be necessary. It is important that the users understand what they are sharing and that apps often ask for information that you do not want others to see.

## 2.5 Amazon Mechanical Turk

The growth of the Internet have made it easier to conduct studies, surveys and so on. One commonly used technique for conducting these studies and surveys are called *crowdsourcing*. Crowdsourcing is a technique where you outsource a job to a undefined group of people. The beneficial aspects with crowdsourcing is that one is provided access to a large set of people who are willing to do the tasks you want done, for low pay [26].

Amazon Mechanical Turk is a good example of a crowdsourcing site. Amazon Mechanical Turk is a Internet marketplace where human intelligence is utilized to perform various tasks [27]. The people using Mechanical Turk are separated into two groups. You have the *requesters* that post jobs/tasks, and the *workers* who can choose from these jobs/tasks, and execute them for pay [26]. The jobs are posted as HITs (Human Intelligence Tasks). HITs are individual tasks that workers can complete to make money.

### 2.5.1 The Turk

The name "Mechanical Turk" comes from a chess-playing automaton from the late 18th century. The Turk, as it was called, was a construction made to seem like a automatic chess-playing machine. In reality there was a professional chess player inside the machine, that steered the arms of the doll that was on the other side of the chess-board. The Turk was constructed in 1770 by the Austro-Hungarian Wolfgang von Kempelen. The reason for this construction was that von Kempelen wanted to impress the Empress Maria Theresia of Austria. The Turk toured around Europe and America for decades, without anyone knowing the secret of the machine. The professional chess player that operated the construction played and defeated many, including Benjamin Franklin and Napoleon Bonaparte. Although many suspected that the Turk was steered by a hidden human, the trick was not exposed before 1820. The Turk was ruined in a fire in 1854 [28]. An engraving of the Turk is shown in

Figure 2.2. The figure shows the Turk with open doors and the different parts inside of the Turk. Wolfgang von Kempelen may have drawn this picture himself, since he was a talented engraver [28].

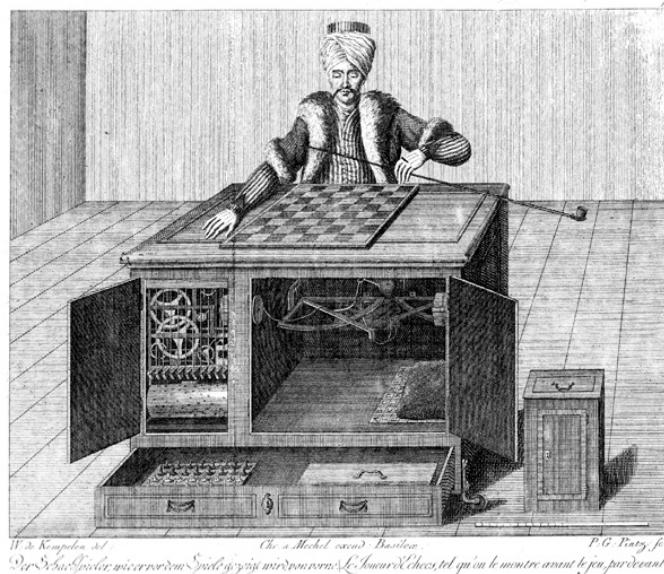


Figure 2.2: **Engraving of the Turk.**

### 2.5.2 Advantages with Amazon Mechanical Turk

There are several advantages of using AMT for conducting behavioural research studies. Amazon Mechanical Turk enables the opportunity to reach out to a wide audience, since it provides access to a large subject pool [26]. When conducting a survey or other research, for example in connection with school projects etc., you seldom have access to a large subject pool. Usually you may get your friends to contribute, and maybe some other people going to the same school or a few people living in the same place. The results of these surveys or researches will most likely be reflected by lack of diversity. By using Amazon Mechanical Turk instead, another advantage is subject pool diversity. The workers on Mechanical Turk are spread all over the world, and have different backgrounds. They have different religions, ethnicity, languages, different positions in society (economical), and age. The one last advantage with Mechanical Turk worth mentioning is that you get access to all the aspects mentioned above at a low cost. The workers are willing to take jobs and perform task for relatively low pay [26].

### **2.5.3 Financial Incentives**

Some concerns regarding the financial incentives are brought up in connection with Mechanical Turk (MTurk). One question is whether or not lower pay result in lower quality in the work conducted by the workers. It is important to have knowledge about the relationship between how good the workers perform, and the financial incentives given to them [29]. Research done by Horton and Chilton [30] shows that the least amount of pay a worker is willing to accept for a task on MTurk is \$1.38 per hour, and they refer to this amount as the *reservation wage*.

The article "Analyzing the Amazon Mechanical Turk Marketplace" [31] written by Panagiotis G. Ipeirotis in December 2010 shows that the effective hourly wage on MTurk is \$4.80. This is calculated based on some observations, and also on some assumptions. What they observed was that the median arrival rate was \$1.040 per day, and that the median completion rate was \$1.155 per day. They then assumed that MTurk acts like an M/M/1 queuing system. Based on these observations and assumptions they used basic queuing theory and calculated that a task worth \$1 is completed with an average of 12.5 minutes. Like mentioned earlier, this results in an effective hourly wage of \$4.80.

Winter and Mason [29] conclude that if you increase the pay, the quantity of participants increases, but the quality of the work done does not increase. They think the reason for this is the *anchoring effect*. The anchoring effect describes that it is common for humans to depend too much on the first information given to them when making decisions [32]. In the case Winter and Mason presents: the workers who get more pay, also assume that the work they are about to conduct is more extensive, and therefore do not get more motivated to perform the work.

## **2.6 SurveyMonkey**

SurveyMonkey is the world's leading provider of web-based survey solutions [33]. SurveyMonkey was founded in 1999 by Ryan Finley, and had 15 million users in 2013 [34]. Using SurveyMonkey as a tool you are allowed to create your own survey based on templates. To get started with SurveyMonkey and to create surveys you have to register the site, and choose an account type that matches your needs. The different account types have different prices. The more expensive, the more is included. There are several features available when using SurveyMonkey [35]. It is easy to create questions, with 15 question types available. You can also add logic to the questions. It is easy to customize the appearance of the survey, with the colors you prefer and so on. Getting responses on the survey is done by sharing an URL, for example on Facebook or in emails. When you have gotten answers on your survey, you get the data presented in graphs and charts. You can also export the results in various ways, for example all response data or just individual responses.



# Chapter 3

## Facebook Privacy

In this chapter we are going to look into what kind of privacy settings that exist on Facebook. We will also look at, and map, how the default privacy settings has evolved over time. In addition to this we will look at some of the features introduced by Facebook over the years, and how these features have affected the privacy on Facebook. Finally we will review some of Mark Zuckerberg's thoughts and comments in regard to Facebook privacy.

### 3.1 Privacy on Facebook

There is no doubt that Facebook has had a remarkable development, both when it comes to number of active users and the development of new features, as shown in Figure 3.1. Along

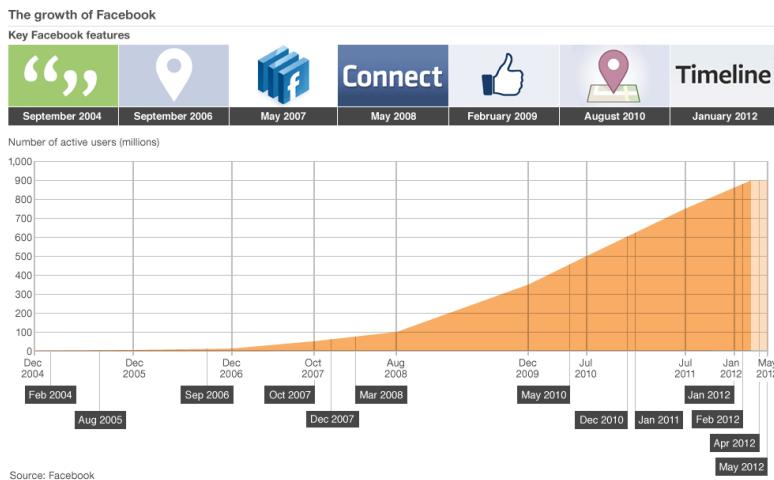


Figure 3.1: **The development of Facebook users and introduction of new features.** The orange field in the graph shows the increasing number of Facebook users over the years. Key Facebook features are shown over the graph according to when they were introduced [19].

with new users and new features, there has also been made major changes to what kind of privacy settings exists and what kind are needed.

### **3.1.1 Facebook Settings**

Whenever Facebook make an update to the settings, the users usually get a personal message informing them about the change. Because of the high number of users, this change happens gradually. This means that not everyone will get a notification about the changes made at once [36]. Despite the changes over time, the main control of ones privacy lies in the hands of the users. The users have the opportunity to make their profile more secure, than what is set to default.

#### **The settings that exists**

There exists numerous settings one can edit to make their Facebook profile more, or less, secure and/or private. The main problem to why people do not change them is probably that many are not aware of these settings, as well as the impact of having a public profile. An other problem can be that people are not confident enough in changing them. When they do not know hat the setting mean, it can be scary to change them. Regardless of this the settings exists, and it is up to each of the users how they are configured. On the Facebook settings page you have different tabs regarding different kind of settings. The settings available are elaborated in Table 3.1.

Table 3.1: The settings that exist on Facebook [1].

Setting tab	Description
General	Under this tab you can edit your name, username, email, <i>password</i> , which network you are part of and language.
Security	Under this tab you can do changes that makes it harder for someone else to hack into your Facebook account. Here you can enable/disable <b>Secure Browsing</b> (the use of https when possible). It is possible to turn on <b>Login Notification</b> . This means you will get notified either by email or text message (after you choice) when your account is accessed from a computer or mobile device that you have not used before. It is possible to enable something called <b>Login Approvals</b> , where a security code is required to access your account from a unknown browser. This code can be given to you in a text message sent to your mobile. You have the choice to use <b>Code Generator</b> on your Facebook mobile app to reset your password or generate login approvals security codes. Under the security tab you can create <b>App Passwords</b> , add <b>Trusted Contacts</b> , view <b>Recognized Devices</b> and <b>Active Sessions</b> . Under active sessions you can see all sessions active via your account. Here you can look for unfamiliar devices or locations, and if you find a session that is not you, someone else have been logged into your account. This session can easily be ended.
Privacy	Under this tab you can change the audience for your future posts. You can also chose who can send you friend requests, who can look you up using the email address you provided and who can look you up using the phone number you provided. The last setting concerns whether or not you want other search engines to link to your timeline. This can either be turned On or Off.
Timeline and Tagging	Under this tab you can choose who can post on your timeline, who can see posts you've been tagged in on your timeline and who can see what others post on your timeline. You can also choose whether or not you want to review tags people add to your own posts before the tags appear on Facebook, and you can choose the audience for a post you're tagged in if they aren't already in it.

Blocking	Under this tab you can block users, app invites from specific users, event invites and specific apps. Under this tab you can also make a <b>Restricted List</b> . Your friends on this list will only be able to see the information and posts that are public.
Notifications	Under this tab you can control how you get notifications, and what you get notified about.
Mobile	Under this tab you can add your phone number(s), and activate registered phone(s) for text messaging.
Followers	Under this tab you can turn on follow, this makes it possible for other people to follow you. Followers will only see your public posts and will not be added as friends.
Apps	Here you can choose whether or not you want to use apps, plugins, games and websites on Facebook and elsewhere. You also get a list of the apps you use, and you can edit the audience for things posted via these apps. The people on Facebook who can see your information can bring this information with them when they use apps. This is to improve the user experience. Under <b>Apps other use</b> you can control the categories of information that people can bring with them when they use apps, games and websites. You can also turn on something called <b>Instant personalization</b> , which let you see relevant information about your friends the moments you arrive on select partner websites. Finally, under this tab you can choose the audience for the things posted using old Facebook mobile apps that do not have the in-line audience selector.

## 3.2 Default Settings on Facebook

Facebook has evolved from being a networking site for students attending Harvard to becoming a global phenomenon. Facebook's user interface has gone through several changes over the years, which has brought both joy and frustration to the users. When these changes have been made, there has also been adjustments to the default privacy settings as well [37]. At the beginning, in 2005, when Facebook first was applied outside of Harvard University, the users personal information was only accessible to a users Facebook friends and to people connected to the same network on Facebook [2]. This is far from reality today. We will now look into how the default privacy settings on Facebook has developed.

### 3.2.1 Development of Default Settings

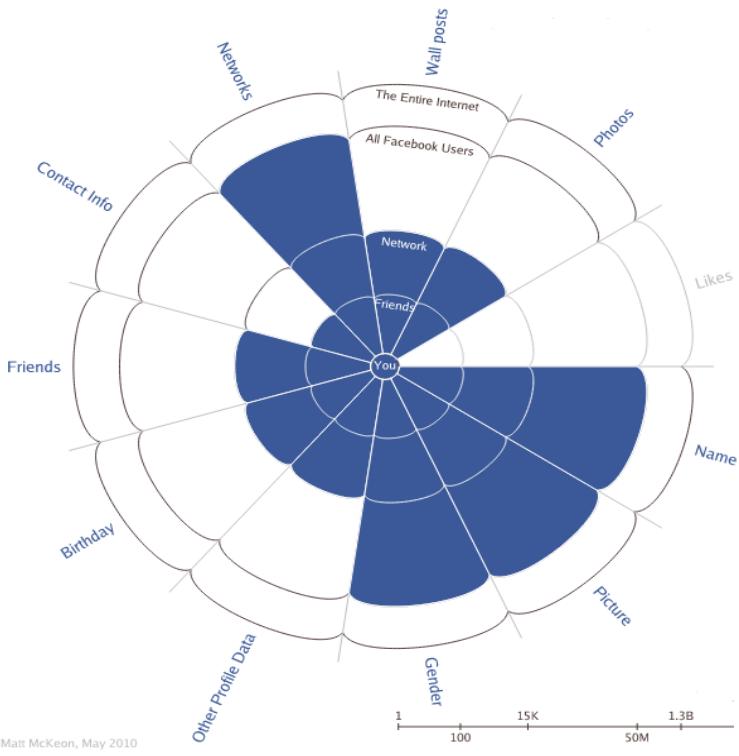
The main changes to the default privacy settings are emphasized in Table 3.2. Each year only states the changes made that year. If no changes were made the default settings from the previous year are the valid ones.

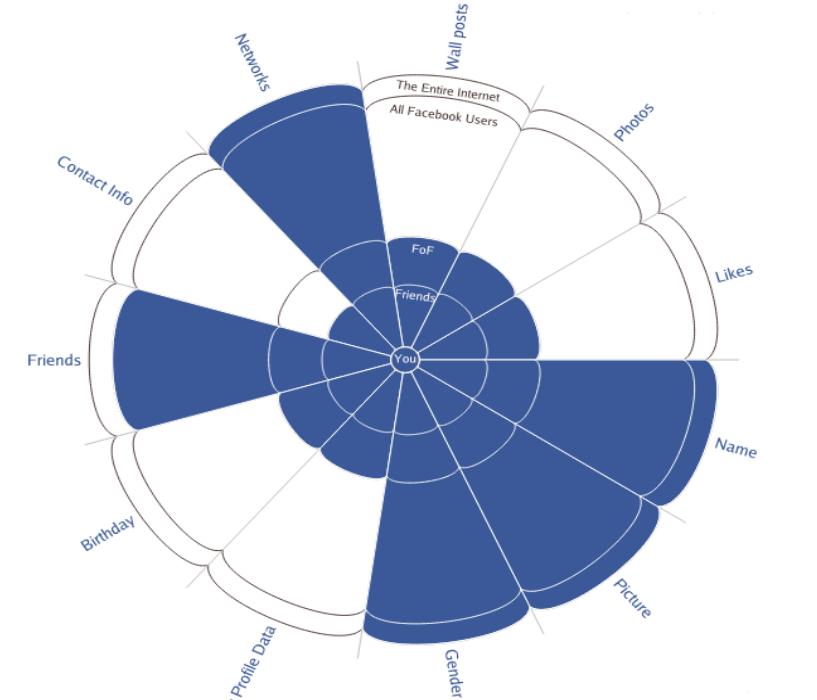
Table 3.2: Changes in the default privacy settings on Facebook from 2005 until today [2, 3].

Year	Default Privacy Settings
2005	<p>Personal information (name, profile picture and gender) and network is visible to all Facebook users. Wall posts, friend-list and photos are visible to a users' specified networks. A users' contact information, birthday, and other profile data is visible only to a users' friends.</p> <p>Matt McKeon, May 2010</p>

2006	<p>In addition to the default privacy settings in 2005, school and specified local area are displayed to all Facebook users.</p> <p>Matt McKeon, May 2010</p>
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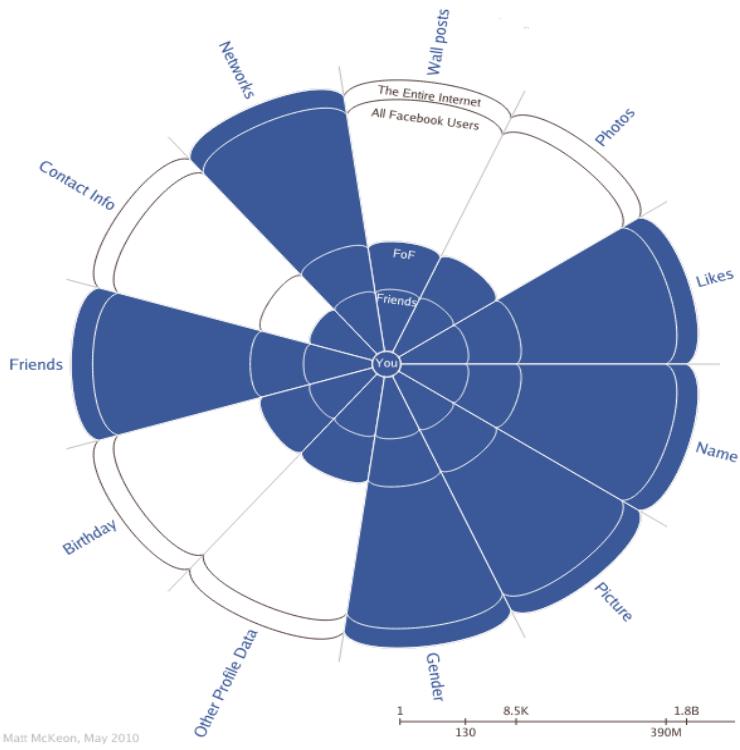
2007      Birthday and other profile data became available to the users' specified networks.



November 2009	<p>Name, profile picture, gender and network became available and searchable to the entire Internet. In addition to this, users' list of friends became visible to all Facebook users. Wall posts, photos, likes, other profile data and birthday became available to friends of friends.</p>  <p>Matt McKeon, May 2010</p>
---------------	--

December  
2009

Likes and users' list of friends became available to the entire Internet.



April 2010	<p>The entire Internet can see everything, except contact info that are limited to friends and birthday which is limited to friends of friends.</p> <p>Matt McKeon, May 2010</p>
2012	<p>If you are 18 or under, all default settings that are "public" are visible to "Friends of friends" and work or school networks. Everyone can see what others post on your timeline and posts you've been tagged in on your timeline.</p>
November 2013	<p>The entire Internet can see everything, except posts you've been tagged in on your timeline and others posts on your timeline, which are limited to friends of friends.</p>

Facebook have had an extreme development. And with the consistent growth, the page have done a lot of changes both in how the page appears and new features they have introduced. This encourages, and also in some cases, forces the user to be more public and share more information with others. Table 3.2 displays the development of default settings over the lifetime of Facebook. In 2005, only a users name, profile picture, gender and network were visible to all Facebook users. Nothing connected to a users profile was

public on the internet. This was still in the early days when Facebook only was available at numerous colleges and high schools in United States, Canada, Mexico, England, Australia, New Zealand and Ireland.

In 2006 Facebook became publicly available, and now everyone with an e-mail address could sign up. It was clear to Facebook that users did not want everyone in the world to see all personal information and therefore changed the default settings, and gave the users more options to themselves decide who to share with. A users name, profile picture, gender, networks, schools and specified local area was available to all Facebook users. Wall posts, photos and a users list of friends was limited to networks. And contact information, birthday and other profile data was only visible to a users friends.

The only changes that was made from 2006 to 2007 was that birthday and other profile data became visible to a users networks.

A lot of changes was made to the default privacy settings in November 2009. Name, profile picture, gender and networks became available to the entire internet. And made it possible to search for a person in for example google and find peoples Facebook profiles. Facebook introduced the feature "like" and the possibility to share with friends of friends, which widely extended the visibility for some content. Wall pots, photos, likes, other profile data and birthday was now visible to freinds of friends. All Facebook users could see a persons list of friends, but contact information was still only visible to a users friends. Just a month later, December 2009, also a users likes and list of friends became visible to the entire internet. The number of users was growing rapidly.

Facebook i becoming more and more public. In April 2010 everything except contact information, that was limited to friends, and birthday, that was limited to friends of friends, was publicly visible to the entire internet. Anyone and everyone could now see almost everything connected to a users Facebook profile.

In addition to Facebook's introduction of Timeline, see 3.3.6 for more information, they also introduced new setting for members under the age of 18. All the settings that were default set to "public" for a regular user, was changed to "friends of friends" and work and school networks for the ones of age 18 and under. Everyone could see what others post on a users timeline as well as posts as users has been tagged in.

Today, in 2013, the entire internet can see everything, except posts you've been tagged in on your timeline and others posts on your timeline, which are limited to friends of friends. We will take a closer look at how the default privacy settings are today, and explain the changes possible in the next section, 3.2.2.

Even though Facebook makes the default settings more and more public, it is important to keep in mind that they also let the users change everything and decide themselves who

they would like to share information with.

### 3.2.2 Default Settings 2013

To examine the default settings on Facebook anno 2013, we created a new Facebook profile. Figure 3.2, Figure 3.3, Figure 3.4 and Figure 3.5 shows the outline of the different settings without any alterations, in other words the default settings.

Figure 3.2 shows how the default security settings look like in November 2013. As we can see from the Figure, secure browsing is enabled by default. This became default in july 2013, but has been an option since 2011 [38].

Figure 3.3 shows the default privacy settings in November 2013. *"Who can see your future posts?"* is set to *Public*, which means everyone can view you posts. *"Who can send you friend requests?"* is set to *Everyone*. *"Who can look you up using the email address you provided?"* and *"Who can look you up using the phone number you provided?"* is set to *Public*, which means it is easier for people to find you on Facebook if they know you email or phone number. The setting *"Do you want other search engines to link to your timeline?"* is turned *on*. This means that for example if you google a person, the Facebook profile will appear in the search. To summarize, the privacy settings are *as public as they can get* by default.

Figure 3.4 shows the default settings for timeline and tagging on Facebook in November 2013. *"Who can post on your timeline?"* is set to *Friends*, which means that only Facebook friends can add things (photos, comments, links, etc.) to your timeline. *"Review posts friends tag you in before they appear on your timeline?"* is set to *off*. This means when friends tags you in something, it will appear on your timeline before you have had a chance to review it. In most cases this is probably fine, but it may occur that a Facebook friends tag you in

The screenshot shows the 'Security' tab selected in the left sidebar of the Facebook settings interface. The main content area is titled 'Security Settings' and lists various security-related options with their current status and edit links:

Setting	Description	Edit Link
Secure Browsing	Secure browsing is currently enabled.	Edit
Login Notifications	Login notifications are disabled.	Edit
Login Approvals	Use your phone as an extra layer of security to keep other people from logging into your account.	Edit
Code Generator	Code Generator is disabled.	Edit
App Passwords	You haven't created app passwords.	Edit
Trusted Contacts	You don't have any trusted contacts set.	Edit
Recognized Devices	No recognized devices.	Edit
Active Sessions	Logged in from Trondheim, 16, NO.	Edit

At the bottom of the page, there is a link to 'Deactivate your account.'

Figure 3.2: Default security settings on Facebook November 2013.

The screenshot shows the 'Privacy Settings and Tools' section of the Facebook settings. On the left is a sidebar with links: General, Security, Privacy (selected), Timeline and Tagging, Blocking, Notifications, Mobile, Followers, Apps, Ads, Payments, and Support Dashboard.

Privacy Settings and Tools			
<b>Who can see my stuff?</b>	Who can see your future posts?	Public	Edit
	Review all your posts and things you're tagged in		Use Activity Log
	Limit the audience for posts you've shared with friends or Public?		Limit Past Posts
<b>Who can contact me?</b>	Who can send you friend requests?	Everyone	Edit
	Whose messages do I want filtered into my Inbox?	Basic Filtering	Edit
<b>Who can look me up?</b>	Who can look you up using the email address you provided?	Public	Edit
	Who can look you up using the phone number you provided?	Public	Edit
	Do you want other search engines to link to your timeline?	On	Edit

Figure 3.3: Default privacy settings on Facebook November 2013.

something you would not prefer to have displayed on your timeline. In these cases it would be desirable to have the review-setting turned on. "Who can see posts you've been tagged in on your timeline?" and "Who can see that others post on your timeline?" is set to *Friends of Friends*. In contrary to those who can post on your timeline, which are friends, friends of friends are able to view the content added to your timeline. If you have many friends on Facebook, and these friends have many friends each, the audience for posts are suddenly extremely large.

Figure 3.5 shows the default settings for apps on Facebook in November 2013. Usage of apps, plugins, games and websites on Facebook and elsewhere are turned on by default. Under "Apps others use" you can choose which categories of information that people can bring with them when they use apps, games and websites. As you can see in the figure,

The screenshot shows the 'Timeline and Tagging Settings' section of the Facebook settings. On the left is a sidebar with links: General, Security, Privacy, Timeline and Tagging (selected), Blocking, Notifications, Mobile, Followers, Apps, Ads, Payments, and Support Dashboard.

Timeline and Tagging Settings			
<b>Who can add things to my timeline?</b>	Who can post on your timeline?	Friends	Edit
	Review posts friends tag you in before they appear on your timeline?	Off	Edit
<b>Who can see things on my timeline?</b>	Review what other people see on your timeline		View As
	Who can see posts you've been tagged in on your timeline?	Friends of Friends	Edit
	Who can see what others post on your timeline?	Friends of Friends	Edit
<b>How can I manage tags people add and tagging suggestions?</b>	Review tags people add to your own posts before the tags appear on Facebook?	Off	Edit
	When you're tagged in a post, who do you want to add to the audience if they aren't already in it?	Friends	Edit
	Who sees tag suggestions when photos that look like you are uploaded? (this is not yet available to you)	Unavailable	

Figure 3.4: Default settings for timeline and tagging on Facebook November 2013.

Figure 3.5: Default settings for apps on Facebook November 2013.

almost every box i checked as default. The only exception is "Interested in" and "Religious and political views". Also shown in the figure, instant personalization is enabled by default and the privacy settings for the information you post/have posted using old Facebook mobile apps is set to public as default.

**Default settings does not preserve privacy** It is safe to conclude that the default privacy settings on Facebook anno 2013 is far too public. Unless there are conducted changes to the privacy settings, the timeline will be publicly available, with the exception of posts you've been tagged in and other's posts on your timeline which is "only" visible to friends, and friends of friends.

### 3.2.3 Default Settings for Teens

Each time a user on Facebook share a status update, the user chooses who the post is visible to, see Figure 3.6. The change you make will remain the same in future posts, unless you decide to change it. Up until today the default audience is set to "public", but for teens between 13-17 years, it has been "friends of friends". On October 16th, 2013, Facebook announced to change the default setting for teens [39]. Now the initial audience for posts are "friends". Teens can later change this to "public", this was not a option before. Teens

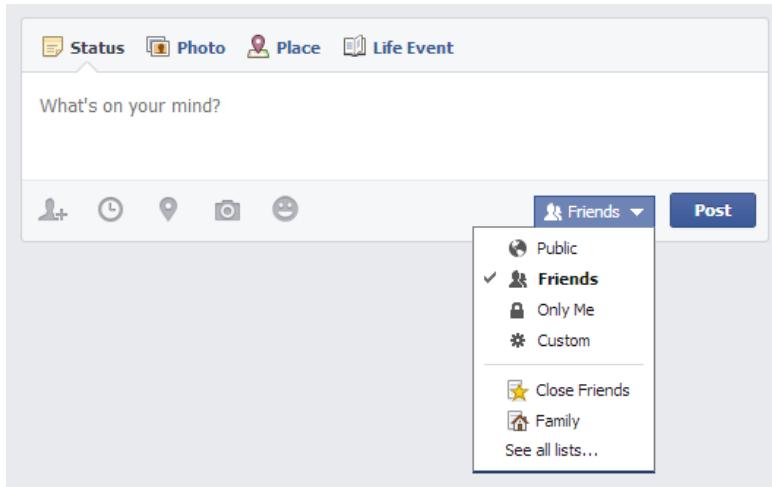


Figure 3.6: Choosing the audience for a status update.

are active users of social media, and want to be heard, either it is political engagement or an opinion on a movie. Further Facebook allows teens to turn on Follow, by doing this their public posts will show up in people's news feeds. Facebook designed these changes to improve the facebook experience for young people. In [39] Facebook also makes it clear that they take the safety of teens very seriously, and therefore have created a more extensive warning message, shown in Figure 3.7. This message appears when a teen changes the audience for their post. If they continue to post to the public, they will get an additional reminder message, as shown in Figure 3.8.

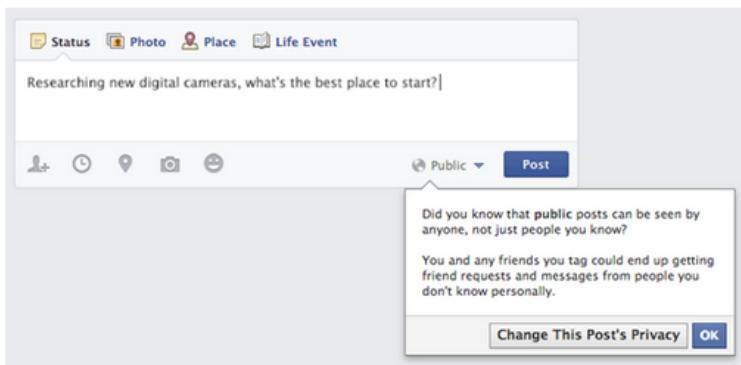


Figure 3.7: The message shown to teens when posting to the public for the first time.



Figure 3.8: **The message shown to teens when posting to the public, except for the first time.**

### 3.3 Facebook Features - Impact on your Privacy

#### 3.3.1 News Feed

News Feed is the first thing you see when you log into your Facebook account. It is a list that constantly is updated. This list includes the activity from your friends and info about Pages you follow on Facebook. Examples of activities that are shown on the News Feed are photos, status updates, links, apps, likes, comments, posts written on timelines and so on. Often are activities with many comments or likes on top of your News Feed. The reason for this is that Facebook uses a algorithm to determine "top stories". The algorithm takes several elements into account when deciding top stories; number of comments, who posted it, and what kind of post it is. The users also have the opportunity to filter their News Feed to for example activity just from close friends, most recent activities, activities of the users in a same network etc. [40].

When News Feed was introduced in 2006, many users showed disapproval because they was not given the control of who could see their updates, and was not able to opt out. A consequence of this disapproval was the creation of a group called "Students Against Facebook News Feed", which got 300 000 members in two days. This lead to an apologize by Zuckerberg: "We really messed this one up. We didn't build in the proper privacy controls". He stated that this was a big mistake on their part [41].

#### 3.3.2 Facebook Platform - Apps

The Facebook Platform was launched in May 2007 at a developers conference in San Fransisco. This feature enabled a third-party developer to build social applications [19]. These applications will then be integrated with Facebbok, both mobile and on the web. "Right now, social networks are closed platforms," Zuckerberg said. "And today, we're going to end that" [42]. Zuckerberg promised the developers a level playing field, and the opportunity to build apps that could compete with the ones Facebook created themselves. As well as access

to the network's at that time 24 million users. In [42] McKenzie talk about the launching moment as the moment when Facebook transitioned from having MySpace as a competitor, to getting Google as the competitor. And that Facebook went from being a wall to start being a platform.

18 months after it was launched, Facebook had abandoned the idea of a level playing field, and had started baking in features that cut off developers who tried to develop similar products as Facebook. Terms as "Zucked over" became more normal amongst developers. What was once looked at as a beautiful piece of engineering, had become a disappointment. Today the platform is mainly used to distribute games. Zynga, who made popular games like Farmville, is about the only company who have managed to build their whole business inside the Facebook Platform. The platform did not become what it intended, and as big as everybody was hoping for. And according to Facebook's own developers it has been a hard one to swallow.

Even though Platform did not reach out to all the areas originally intended, it is still popular. By the end of March 2012, there were more than 9 million apps and websites integrated with Facebook through the Platform [43].

As mentioned in section 2.4, apps is one area that highly concerns the users to interdependent privacy. Facebook Help Center [44] explains that apps are designed to enhance the user experience with engaging games and useful features. In order for the apps to do this they ask you to share personal information. All apps ask for your basic information, this consists of your name, profile picture, cover photo, gender, networks, username, and user id. This is information that always is publicly available. Apps also have access to your friends list and any information you choose to make public. The apps ask for this information to enhance the users experience by personalising content, helping the user find friends that also uses the app, and make sharing of information easier. As well as speeding up the sign-up process, so that the user can start using the game or app right away.

**Application permissions.** As of November 2013 Facebook has 54 permissions divided into 6 different categories [45]. These categories are email, permissions, extended, extended profile properties, open graph permissions, page permissions and public profile and friend list.

**Apps privacy control.** In the Facebook settings [1] under the tap "Apps" the user can manage apps, Figure 3.5, and control what information that will be shared with apps others use. The user also has the opportunity to turn off all platform applications. The user will then no longer be able to use any games or other applications.



Figure 3.9: The application TripAdvisor inside Facebook's App Center.

## Installing an Application

We will now look at the process of installing an application from Facebook Platform. As mentioned when installing an app, the user will be asked to give permissions to share information. This information vary a lot, some just ask for your basic information, some ask for relationship status, birthday and also permission to post to your Timeline in your name. We have looked at the very popular application TripAdvisor. According to the site secure.me [46] TripAdvisor have a poor reputation because it may be a threat to your privacy.

**Installing on a PC.** When opening TripAdvisor in Facebook's App Center on a personal computer, we are directed to TripAdvisor's page, as shown in Figure 3.9. The page contains information about the application, as well as the permissions required. These permissions are shown in the top right corner. The permissions that TripAdvisor requires exceed beyond basic information. We can put these permissions in the following privacy groups; personal

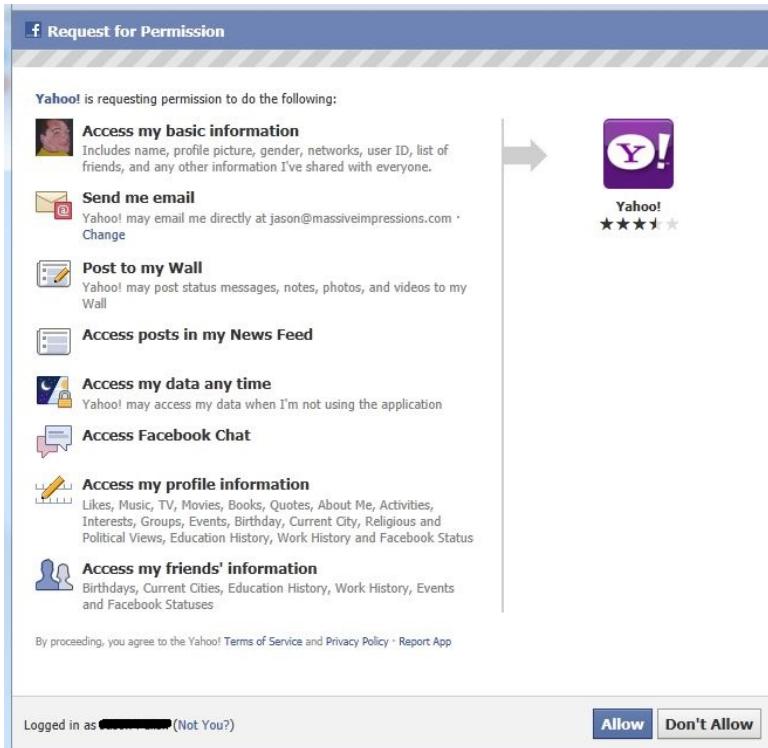
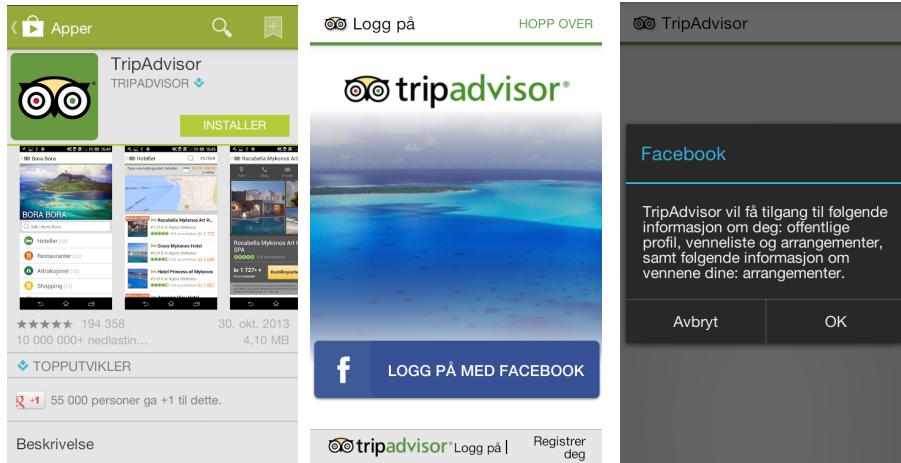


Figure 3.10: Request for permission when installing app anno 2011.

privacy, relational privacy and spatial privacy. Personal privacy contains the permissions to access personal information about the user like location, education, hometown, work history, your photos, your status updates, e-mail address and likes. Relational privacy includes retrieving friends' profile information; education history, hometown, likes, locations and work history. As well as photos shared with you, and status updates shared with you. The last privacy category, spatial privacy, concerns posts that the app post on your behalf on your Timeline. By default these posts are set to public, but you can easily change the setting before installing the app. When pushing the "Go to App"- button, you automatically give your consent to the required permissions and install the App. This can be misleading, since the user might look for a installation button, or some kind of verification that the installation has started. This may lead to an app being installed without the user knowing. The permissions are all shown, and explained, but not as visible as they used to be before App Center was introduced. Figure 3.10 shows the authentication dialogue as of 2011, before App Center was introduced. You got a pop-up windows stating all the permissions requested by the app. The use of pop-up windows like these made it much easier for the user to review the permissions, and to not miss out on them.



(a) Installation page for TripAdvisor. (b) The page where you can choose "Log in with Facebook". (c) Facebook's request for permissions on mobile phone

Figure 3.11: Installing TripAdvisor on mobile phone

**Installing on a mobile phone.** The installation process looks a bit different when you install an app on the Facebook application on a mobile phone. When clicking on the application TripAdvisor in the Facebook mobile app, the user is directed to Apples App Store or Android's Play store. Figure 3.11a shows the application in Android's Play Store. When TripAdvisor is installed, the user can choose if he/she would like to connect with Facebook as Figure 3.11b shows. If the user choose to connect with Facebook the request for permissions will appear in a pop-up window, this you can see in Figure 3.11c. The user can then choose either to cancel or press OK. If the user press OK, the user gives permission to the app to access the requested information stated in the pop-up window.

### 3.3.3 Beacon

At the end of 2007 Facebook launched the feature Beacon. Beacon was created to help users easily share information from other websites with their Facebook friends [47]. Beacon was a key part of the Facebook Ads system. The aim was to connect businesses and users and create a more targeted advertising towards the users.

When Beacon was launched it had 44 partner sites, among these were Live Nation, fandango.com, Trip Advisor, STA travel, eBay, the Knot and Zappos.com. According to the Facebook announcement [47] these websites could determine which actions was most relevant and appropriate for a user to share on Facebook. This could be anything from watching a video, a new high score on an online game, posting an item for sale or completing a online purchase. When a user, that is logged on to Facebook, enters a website that is part

of Beacon, they will receive a message asking whether they would like to share their actions on Facebook. If a users agrees, the users actions on that page will be shown in their news feed or mini feed and shared with their friends.

Beacon received a lot of attention and privacy concerns. Some websites posted to Facebook without asking the users if they want to share the information first. Beacon is a very short piece of code provided by Facebook. The participating websites implement this code on the actions that they would like people to share. An example described in [48] is with the blog page TypePad. The user have the opportunity to chose whether Beacon should be turned on or not. When creating a post and publishing it the user receives a small pop-up window in the lower right corner stating that you are now sharing this information with Facebook. The pop-up allow you to decline, but here you have to be quick, the window is not visible for long. When entering Facebook a message is shown at the top of the users wall. Telling the users that a website have shared information with Facebook. You then have the opportunity to go through and select whether that website is allowed to share at all, to just friends or to the public.

But not all websites have created an option for the users to choose for themselves whether or not to opt-in. And pushes to Facebook without notifying the users or lets the users select themselves that they want to share it. An much used example of this is a man buying an diamond engagement ring online [49]. Within hours he starts receiving congratulations from friends and family. The website had posted the purchase on the guys public Facebook page, including a link to the purchase and the price. All his friends received an notification, including his coming fiancée. So much for the surprise engagement. There are several similar stories. This is unfortunate for the users, but also for the companies using Beacon, it puts them in a negative light. Beacon could have been a great asset for different companies, and a great way for them to broadcast themselves.

Another problem is that Beacon only checked that someone was logged on Facebook. When several people use one computer it could create problems, since Beacon was machine specific. One family member, the mother, could be logged on while her 10 year old son plays an online game, and manages to make a new high score. This high score will then be posted in the News Feed on the mothers Facebook profile, and shown to the mothers friends. This is not very fortunate for the mother. Beacon only checks that there is a valid Facebook cookie on the machine and then pushes the content to that Facebook user, without any validation.

In a blog post, Mark Zuckerberg apologized for the way the feature was created and for the handling of the complaints in hindsight [50]. Zuckerberg explains that one of the problems with making the system opt-out, was that if a Facebook user forgot to declilne something Beacon still went ahead and posted and shared with the users friends. Further he explains that it took them too long from they started receiving complaints to they were able to decide on a solution to the issues. Facebook released features that gave the user more control.

And the users got the ability to turn off Beacon completely. In addition Facebook promised their users that they did not save the information Facebook received from the participating websites when the user had chosen to not use Beacon.

All of beacons issues resulted in a lawsuit against Facebook, and some of the participating companies. The lawsuit resulted in a settlement, where Facebook agreed to shut down the feature and gave \$9,5 million to found a new non-profit foundation that would work with online privacy, security and safety [51]. Beacon was shut down in September 2009. Beacon is mentioned as one of the darkest marks in the history of social networks.

### **3.3.4 Facebook Connect - "Log in with Facebook"**

From may 2008 users had the ability to connect and log in to other web pages via Facebook, "log in with Facebook". The users are allowed to connect their Facebook identity, friends, and privacy to any website supporting this feature. This was Facebook's first attempt to allow access to user data from Facebook outside of Facebook itself. The important features of Facebook Connect are stated in Table 3.3.

Table 3.3: Facebook Connect Features [4, 5].

<b>Feature</b>	<b>Description</b>
Trusted Authentication	Authentication when users connect their account to a third party. During the user's experience the developer could at any time like to add additional social context. These activities need authentication from the user. In other words, the user have total control over the permissions that are granted.
Real Identity	The users can port information linked to their real identity with them on the web to a third party website. This information includes basic profile information, profile picture, name, friends, photos, events, groups etc.
Friends Access	As mentioned, the users take their friends with them to third party sites. This makes it possible for the developers to add social context to the sites. You will also get notified if some of your friends already have an account on the site.
Dynamic Privacy	When the users move around from one place on the web to another, they always bring their privacy settings with them. This is done so one can be sure that their information and privacy settings are updated at any time. In other words, when you update your privacy settings on Facebook, they will automatically be updated on third party sites.



Figure 3.12: **Nearby function on Facebook's mobile application.**

### 3.3.5 Places

The feature Places was launched in the United States August 2010, and later in the rest of the world, this enabled the users "check in" using their mobile device [52]. This feature enables the users to share a place that they really like with their friends. This can be a café, a new restaurant, a concert or maybe a nice hiking trail. Have you ever been to a concert and found out afterwards that several of your friends also were there? This is what the feature places solves for you. You can for example check in to the concert, and see who else is there or see who of your friends is close by. After you have checked in at a place, your check-in will appear in your friends News Feed. It is possible to tag the friends you are with. The user are in control of what is shared and who it is shared with. A user chooses whether or not they want to share the location they are at. If a user is tagged in a check-in, they will always be notified. The default audience is "friends", unless the user chooses to share differently, for example with "everyone", or a more restrict option, just specific friends.

This feature is also used with third-party applications, like TripAdvisor or other travel planning applications. They collect your check-ins to generate a map that shows where you have been in the world. So if you are planning on going to Paris you can see who else has been there and also at what places, restaurants etc., they have checked in to. When you write a post on Facebook you can decide if you would like to add a location to the post. And when creating the post you also decide the audience. On the mobile phone it is a little different. Here the location setting is located in the phone settings and not in the Facebook settings on the phone. The places setting on the phone can get your location by using Wi-Fi, mobile network or GPS signals. If one of these are turned on, the user's location will appear on chat messages. When a user writes a post and wants to add a location, the phone asks the user to turn on GPS, this to get a more accurate location. If the user desires not to turn it on he/she can write in a location, for example "Oslo", and Facebook will suggest places. A feature on the Facebook's mobile application is "places nearby". Here the user can see what places that



Figure 3.13: The "Places nearby" feature. Displaying places close to their current location.

is close to their current location, and which friends that have liked the place or/and checked in there and ratings from other users. This is shown in Figure 3.12 and Figure 3.13. A user also have the ability to add locations to photos that they post themselves or that others have posted.

### 3.3.6 Timeline

Facebook timeline was introduced in December 2011 [20]. This feature made the entire history of the users visible: your posts, posts by others, likes, photos, links, pages liked, comments and other things that you have shared on Facebook. The timeline showed much more than the old profile did, and it was far more visual [53]. On the top of your timeline it is room for a big photo. This photo is called a *cover photo*. Cover photos are publicly available, and it is not possible to change the settings for them. You can of course choose which photo you want as your cover photo, or just choose not to have a photo there at all. When scrolling down your timeline , you'll see photos, posts etc. and different events in your life in order of when they happen [53]. You can look at it as the story of your life. You get the opportunity to "go back in time" and fill in the blanks. If you want to emphasize, for example an event or a photo, you can highlight it with a star, or on the other hand, if you want to hide something from the timeline you can also do so.

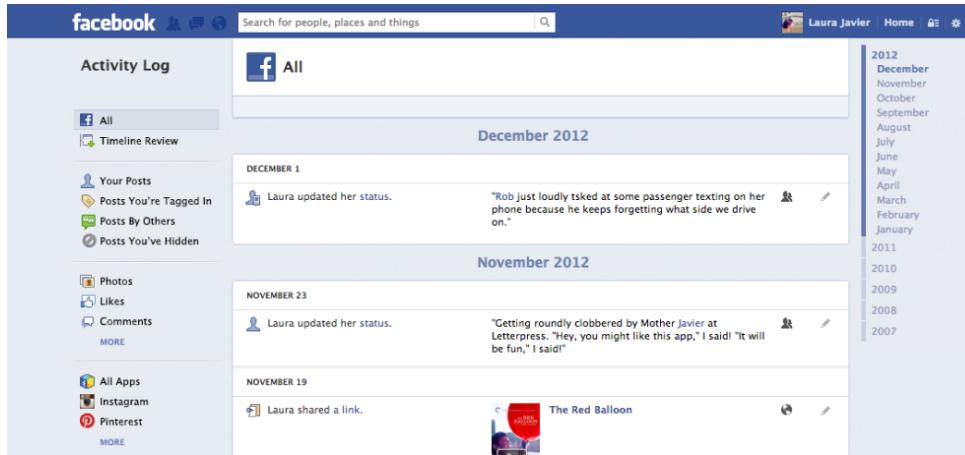


Figure 3.14: Example of an activity log on Facebook.

**Privacy concerns regarding Facebook timeline** When timeline was introduced many people became overwhelmed by the changes, and felt they lost control over their privacy. When you agreed to start using timeline, you got a certain period of time to review and edit your timeline before making it public. This gave the users the opportunity to clean up their timeline before everyone else could view the content of it. Cleaning up the timeline can be done using something called the "Activity Log" [54]. The activity log is basically a list over everything ever done in connection with you on Facebook, either done by you or by others. The activity log also makes it easy to view and change the audience for the different "activities". Figure 3.14 shows an example of an activity log. On the left side you see types of content. If you want to view for example "Posts by others" you can do so by clicking on it. To the right you see a list of the years and months. You can click on which year or month you want, and review the activity from that year/month [54]. If you are an active user of Facebook, reviewing the whole activity log can be very time consuming.

The introduction of timeline was not in itself a privacy breach since you had, and still have, the opportunity to decide what you want to be visible on it, and what you want to hide. On the other hand, there are people who are extra exposed when Facebook introduced new major changes, like the timeline. Lets refer back to section 2.3 in Chapter 2, where we highlighted some of the findings from the survey addressed in the paper "Facebook privacy settings; Who cares?" by danah boyd and Eszter Hargittai [22]. boyd and Hargittai concluded their paper, based on their survey and findings, that experience and Internet skill is important to take into account in regard to how people handle their privacy settings on Facebook. Since familiarity with technology plays a role in how people handle their Facebook privacy settings, one can assume that the least skilled people get more exposed when Facebook changes the outline of the default privacy settings. This can be seen in the context with the introduction of the

timeline. The least skilled users of Facebook that perhaps do not know how to change their privacy settings, probably was left extra exposed when the timeline was introduced and their timeline may have shown, and may still show, more than they actually would prefer.

There also exists privacy settings connected to your timeline under "Timeline and tagging" in your settings on Facebook. You can regulate who can add things to your timeline, and who can see things on your timeline. Under "Privacy" you can also regulate who can see your future posts.

### 3.3.7 Graph Search

Graph Search is a semantic search engine introduced in a beta version by Facebook in March 2013. During the summer 2013 the Graph Search became available for everyone using Facebook with US English language [55]. The old search bar at the top of the page is replaced with a larger search bar, Graph Search [56]. The Graph Search enables the users to search using natural language queries, and not just search using keywords. In addition to this the search results will be based on both relationships and content [55]. Two examples are "Photos of 'friend's name' are tagged in" and "Restaurants in Oslo, Norway visited by my friends". The basic idea is that the users are given the possibility to search Facebook for different stuff (photos, people, places etc.) in a specific subset, specifying the queries [57]. To emphasize how specific the search can be, we will provide you with an example. Let us say you met someone at a party and the only thing you know about the person is the name, where the person goes to school and you know that the person is a friend of one of your Facebook friends, you can write a query which reads as follows: *"People named 'name of the person' that are friends with 'name of the common acquaintance' and who go to 'name of school'"*. Of course this may not give the outcome you wanted, if the person for example have not given any information about where he/she goes to school on Facebook. Just having the opportunity to perform such queries gives the user more power, and makes it easier to connect to new people.

Zuckerberg says that Graph Search is centered around "making new connections", because the feature makes it easier to make new connections [57]. Facebook emphasizes that the purpose of Graph Search is not to replace traditional web search. The Graph Search concerns, on the other hand, the filtering of all photos and all connections on Facebook. Since Facebook is the largest online social network in the world, it is *not just a few* photos and connections available, but over 240 billion photos and over 1 trillion connections. The choices you have made in your settings determine what friends and others can see when they conduct a Graph Search [58]. If a photo is set to "Only me" no one else can find it in the search, if it is set to "Friends" friends can find it in their search, and if it is set to "Public" anyone who searches for it can find it. Graph Search is in other words a good tool for viewing as many photos as you are allowed to view of people who are not your Facebook friends. The photos of you that are public will come up in a Graph Search regardless of how you have

set your privacy settings. As long as someone has posted a photo of you as public, the entire Facebook can find and view this photo via Graph Search. So if you are interested in viewing pictures of a specific person who is not your friend on Facebook, it is not necessary to start digging through numerous albums and so on, but just do this with a quick search.

A limited group of people got access to Graph Search in January 2013. During a introductory press conference, Mark Zuckerberg stated that Graph Search was in it's early stages, and that it will take years to complete it. He said: "Graph Search is a really big project, and it's going to take years and years to index the whole map of the graph". After the introduction of Graph Search, many questions was brought up about the privacy issues regarding it. One of the issues brought up was that the tool makes it easier for people to retrieve information and photos about other people who do not want this content to be available and seen. The fact is that people only get to view content they already could view, but it makes it much easier to find this content. Facebook assured that Graph Search does not affect the privacy of minors. They stated that identifying information about those between the ages of 13 and 17 would only be shared with friends of friends of that minor [59].

Graph search is for the time being still only available for users using US English language on their Facebook, but is a work in progress like mentioned before. Facebook has stated that further work on the feature deals with searching across posts, comments and mobile [59].

### 3.3.8 Facebook Removes Search Privacy Setting

October 11 2013 Facebook announced that they will remove the setting that until now had made it possible for Facebook users to hide from the ability to be looked up on the Internet [60]. The change only affected the users that had not changed the setting "Do you want other search engines to link to your timeline?" under "Who can look me up?". Facebook explained the removal of the feature by it being outdated, and that there are several other ways to find a person's Timeline. Mark Zuckerberg argued that users should not have information they do not want everyone to see set to public anyway, so it is irrelevant whether or not someone can find you on Google or not.

## 3.4 Zuckerberg's Thoughts

Zuckerberg ones said this about Facebook in a one of his meetings: "*I mean, one way to look at the goal of the site is to increase people's understanding of the world around them, to increase their information supply*", he said. "*The way you do that best is by having people share as much information as they are comfortable with. The way you make people comfortable is by giving them control over exactly who can see what*" [13].

This comment from Zuckerberg brings out his thoughts around the privacy issues. He wants the users of Facebook to be comfortable with sharing information, and give them

this confidence by giving them control. In general the privacy settings and restrictions that Facebook has have protected the users. They can easily change the setting and decide who can see what. Zuckerberg firmly means that you should not post comments or pictures of things you do not want anybody else to see. And if a user does so, the user has to take the blame for it, not Facebook. Zuckerberg was once asked about pictures put on Facebook of students drinking at an East Coast college, which led to some students being expelled. His answer to this question was: *"First of all, it's pretty stupid if you put up pictures of you doing drugs on Facebook. I think that that's just sort of the deviant behavior on the very far end of the distribution. I bet that those kids do not post pictures of them doing drugs on Facebook anymore."* He added that he meant this was a *"pretty shitty way to learn that"* [13].

Mark Zuckerberg wrote this in a letter to possible investors [61]: *"Facebook was not originally created to be a company. It was built to accomplish a social mission - to make the world more open and connected. People sharing more - even if just with their close friends or families - creates a more open culture and leads to a better understanding of the lives and perspectives of others. We believe that this creates a greater number of stronger relationships between people, and that it helps people get exposed to a greater number of diverse perspectives."*

# Chapter 4

## Construction of the Survey

To be able to map to what extent people care and are aware of their Facebook settings, regarding privacy, security and interdependent privacy, we designed and distributed a survey. The survey addressed the different settings available on Facebook, and awareness regarding Facebook applications and knowledge about interdependent privacy. For the design of the survey, we utilized SurveyMonkey which provides web-based survey solutions (see section 2.6). We distributed the survey on two platforms, namely Amazon Mechanical Turk (AMT) and Facebook. Amazon Mechanical Turk is a Internet marketplace where human intelligence is utilized to perform various tasks [27]. For more information about Amazon Mechanical Turk, see section 2.5. To reach out to a even larger audience, we posted the survey-link on our Facebook pages. In this chapter we will describe how we designed the survey, how it is structured and how we distributed our survey.

**Constructing the Survey** There is not much research on the area of interdependent privacy. To be able to bring forward information and contribute to new research, we created a survey. When making the questions, we wanted to create an image of peoples Facebook usage, how they set their settings, how much they know and care about their privacy and to what extent their privacy is dependent on other users. We quickly chose to use AMT as a platform for distributing the survey, because we wanted to create an image of the average Facebook user as well as getting a high diversity among the respondents (different countries, age, education etc.). Previous research shows positive results with the use of AMT [12, 29].

We started implementing the survey inside the survey template provided by AMT. After some consideration, we found that AMT did fulfil our requirements for design, so we chose to implement the survey using SurveyMonkey instead. During the creation of the survey, we thought that it would be better to include some extra questions, than to leave some behind. When the survey first got distributed, we were no longer able to edit the questions. We therefore chose to include questions not only regarding privacy and interdependent privacy, but also other aspects of Facebook usage. For example some questions about security settings, usage, personal experience in regard to photos and comment sharing.

## 4.1 Design

AMT offers a template for creating surveys, and this template uses HTML-code. It is simple, but requires more work from the requester. We found the template to be little user friendly, and it did not offer many design options. Our survey consist of many questions, and some of them had follow-up questions requiring text answers. It was then desirable to separate these on two different pages. We did not want the respondents to have their answers affected by the next question. It requires more of the respondent to write a text answer, so to avoid them answering based on the next question we separated the questions onto different pages. For example, we have one question asking whether or not the use of Facebook has lead to any uncomfortable situations. If the user answers "Yes", a follow-up question asking to describe the situation that occurred will appear. If the user answers "No" the follow-up question will be skipped. If the user had seen the follow-up question, he/she may not be bothered to answer yes even though this may have been the truthful answer. We did not find an easy solution to implement this design feature in AMT, so we looked for other options. AMT provides their own "Survey"-template, as well as a "Survey Link"-template. This means that you can create the survey somewhere else, and just link to it in AMT. We chose the latter, and used SurveyMonkey to create the survey. SurveyMonkey provided us with the tools and features necessary to design our survey as desired.

**Features we used in SurveyMonkey.** SurveyMonkey offers several features, and has a intuitive user interface. It was easy to implement the questions, and separate them on different pages which was of high value to us. SurveyMonkey offers the ability to customize the appearance (color/theme, layout, etc.) of the survey to a higher extent than AMT. We put in a picture of the university logo, to emphasize the seriousness of the survey, as shown in Figure 4.1. SurveyMonkey also offers many different question types (multiple choice, text box, matrix and drop-down menus, etc.), and restrictions on the questions. It was important to have some restrictions especially on the text boxes. Some of the restrictions that we used was to limit the amount of characters in the text boxes, to avoid too long answers. We also made almost all questions mandatory, meaning that the respondents had to answer them before being able to move to the next question. As mentioned we divided the questions onto several different pages. This gives the respondents the impression that the survey is shorter. Each page has a title on top, grouping the different areas the questions consider. A progress bar was added to the bottom showing in percent how far into the survey the respondent was at any time. This gives a good overview, and the user get a feeling of how much is left. We chose to use these features to avoid overwhelming the respondents with too many questions at a time.

SurveyMonkey offers a great user interface also when it comes to reviewing the answers. It is possible to see graphs showing the distribution of answers to all of the questions, as well as individual answers. SurveyMonkey also offers features as filtering and comparing, which made the analysis a lot easier, especially when having a large number of respondents.

 NTNU  
 Norwegian University of  
 Science and Technology

**Interdependent Privacy on Facebook**

Survey on Facebook privacy (research for the Norwegian University of Science and Technology)

We are two master students conducting a survey to gauge user knowledge on certain aspects of Facebook privacy. The survey will be the foundation of a research project, which we are carrying out for Norwegian University of Science and Technology.

In order to answer some of the questions in this survey, you are required to be logged in to your main account on Facebook, and go to your "Settings" page (accessible as a drop-down menu marked by either a "wheel" or an "arrow" in the top bar of your Facebook starting page). Before such questions you will be directed under which tab you find the requested information.



Figure 4.1: Front page of the survey.

## 4.2 How the Survey is Structured

The first page seen when taking the survey, is a introduction page that shortly explains what the survey is about, and it's purpose. This page emphasizes the seriousness of the survey. When people see that it is a research survey carried out by master students at an university, we believe people will answer in a serious manner. The front page also includes the requirement for taking the survey, and a short explanation on where to find answers requested in some of the questions. This is shown in Figure 4.1. As mentioned before, we have divided the questions into different areas, and we will now go through each area and emphasize and elaborate the questions we consider as most relevant and important.

### 4.2.1 Facebook usage

Following the first page, is one page about Facebook usage. This page includes questions about sign-up year, how often they check their Facebook page and number of friends.

### 4.2.2 Facebook privacy: settings

This is a part of the survey where the users need to be logged in to their main account on Facebook to check how their privacy settings look. The questions are taken directly from the "Privacy"-settings and "Timeline and tagging"-settings on Facebook. We divided these questions onto 4 different pages. Before we started asking about specific settings, we asked the users how often they have checked their Facebook privacy settings during the last year. One of the following pages ask for the privacy settings, and another for the timeline and tagging settings. These questions are straightforward for the user, since all they have to do



## Interdependent Privacy on Facebook

### Facebook privacy: personal experience

\*21. To what degree do you care about what is published about yourself on a scale from 1 - 5, where 1 is "Don't care at all, everything can be public" and 5 is "I untag and hide everything that is published of me" (pictures, comments etc.)? Please elaborate in the text box below.

1

2

3

4

5

Please elaborate:

\*22. To what degree are you selective about what you post about others on a scale from 1 - 5, where 1 is "I am not selective at all, I post everything" and 5 is "I never post anything about anyone" (pictures, comments etc.)? Please elaborate in the text box below

1

2

3

4

5

Please elaborate:

\*23. Is it important to you that the content of your profile is only visible to your facebook friends? Please explain.



Prev

Next

Figure 4.2: Question 21 and 22 in the survey concerning personal experience.

is to render the settings they have set themselves. This will easily show us how many that actually have checked their settings, and to what extent they have made them more, or less, private than default. At the end we asked the users whether or not they consider changing their settings after having reviewed them. This can make for some interesting observations, and can also give an impression of whether or not the users care or are aware of the settings.

### **4.2.3 Facebook privacy: personal experience**

This group of questions focus on the users personal experience with concern to both privacy and interdependent privacy. We ask whether or not the respondents have experienced that their use of Facebook has affected their professional life or led to any uncomfortable situations. Both of these questions have a follow-up question where the users are asked to describe the situation that occurred. You will only be sent to the page with the follow-up question if you answered yes. If you answered no, the page with the follow-up question will be skipped.

A big part of Facebook consists of sharing photos and comments with others, we therefore asked the respondents to indicate on a scale from 1 to 5 how much they care about what is published about themselves, and what they publish about others, see Figure 4.2. It was mandatory for the users to give an answer on the scale. We received a total of 250 responses on our survey, and 190 of them chose to elaborate.

### **4.2.4 Facebook privacy: apps**

This is the part of the survey that concerns interdependent privacy (see section 2.4), and also the most important part of our suvey. As mentioned before this is a relatively unknown term, so we wanted to find out whether or not the respondents knew the meaning of interdependent privacy. Since the app platform on Facebook to a high extent relies on information about a user's friends, it is in this area interdependent privacy becomes more important to address. When you install an app on Facebook, it asks for your basic information, and often more information about you and your friends. For more detailed information about the app-platform, see subsection 3.3.2. Question 26, 27, 28 and 29 (see Figure 4.3 and Figure 4.4) asks about the users awareness regarding what kind of information the apps can retrieve. There exists settings directed towards apps on Facebook (see Figure 3.5). Question 25 concern the number of apps the respondents use. Question 26, 27, 28 and 29 concerns the user's awareness connected to apps permission request on Facebook. In question 30 (Figure 4.4) we ask the user to look at one of the app settings, "Apps others use". In this setting the user decides which information they make available to apps others use, in other words control the categories of information that people can bring with them when they use apps. We want to know if the user are aware of the existence of this setting. We did not ask for more specifics about what information they share, because this is not relevant. What is relevant is whether or not they know it exists, and are aware of what kind of information they share. We finish this part of the survey with the same question we started it with, if they know the meaning of interdependent privacy. We wanted to ask again to see if they got a higher understanding of the term after answering questions about apps, and saw how it is all interconnected.



## Interdependent Privacy on Facebook

### Facebook privacy: apps

For Q25: check under the tab "Apps > Apps you use".

\*25. Under the tab "Apps > Apps you use" in your Facebook settings, you can see the list of apps you use. How many apps do you use?

- None     1-5     6-10     11-20     21-30     More than 30

\*26. Are you aware of the fact that ALL apps you install on Facebook have access to your basic information, including the list of your friends?

- Yes     No

\*27. Did you know that A SIGNIFICANT PORTION of Facebook apps you install can post information on your behalf to your and your friends' timeline? (E.g., Spotify posts songs you have listened to.)

- Yes     No



Figure 4.3: Question 25, 26 and 27 in the survey concerning Facebook apps.

### 4.2.5 Facebook security: settings

The main focus in this report is on privacy, not security. At the same time, we wanted to ask a few questions regarding Facebook security settings as well. The reason for this is because we wanted to see if there was a connection between strict security settings and strict privacy settings among the respondents of our survey. The questions concerns whether or not the respondents use secure browsing and login notification.

### 4.2.6 Demographics

In the last part of our survey, we have asked for demographic information about the respondents, to get a hunch of what kind of people have taken the survey. We chose to put the demographics part at the end, rather than in the beginning. We assume that a respondents attention span gets lower during the survey, we therefore wanted to put the "easy" questions at the end since they require less focus. These questions consists of: gender, age, country, family situation, highest qualification/degree, employment status and income. Although



## Interdependent Privacy on Facebook

### Facebook privacy: apps

\*28. Did you know that SOME Facebook apps you install have access to your friends' private information, such as religious view, interests or relationships?

Yes

No

\*29. Did you know that SOME Facebook apps you install have access to relational information, such as private chat messages and joint events between you and your friends?

Yes

No

\*30. In order to avoid that apps used by your friends can access your personal information, you can edit the settings under the tab "Apps > Apps others use" in your Facebook settings. Have you been aware of these settings?

Yes, I am aware of them, but haven't changed the default settings.

Yes, I am aware of them, and have changed the settings.

No, I was not aware of them, and will not change the default settings.

No, I was not aware of them, but I will look into if I want to change my settings now.

31. After answering the last few questions about privacy issues regarding Facebook apps, do you have an idea about what interdependent privacy means with regard to Facebook? If so, please try to describe it below. Please do NOT use Google or any other search engine to find the answer. If you don't know the answer, just leave the field blank.



Prev

Next

Figure 4.4: Question 28, 29, 30 and 31 in the survey concerning Facebook apps.

these questions are easy to answer, they are very important to include. When analysing, they are necessary in order to be able to draw comparisons between for example age and/or gender. An interesting factor is to see where the respondents using AMT come from.

### 4.3 Distributing the Survey

First we created a requester account on AMT. We did this using an already existing Amazon account. While creating the project (our project contained only one HIT) we filled out the

properties shown in Figure 4.5. First we had to give a short title and description to describe our HIT to the workers. This is the information that is shown to the workers before they choose to either accept the HIT or skip the HIT. We also had to decide a reward for the workers. We had limited time, and wanted our HIT to be as attractive as possible, and therefore chose to have a higher reward than average. We set the reward to be \$1.5 per completed assignment. We estimated that it would take approximately 15 minutes to take the survey, this would give a hourly wage of \$6. We were also asked to set a maximum number of assignments per HIT, this means number of unique answers. We set this number to 250. We felt that 250 responses would give us a very good foundation to base our analysis on. AMT defines a feature that let the requester review the answers, and then choose to either approve or discard them. When discarding an answer, the worker will not get paid. If we did not manually approve the answers, they would automatically be approved after 3 days. We made the HIT available for only 21 days. To get a high quality on the responses, we were advised to use "Master Workers". This is users that have a good reputation from previous work done on AMT. See section 1.3 for more information about "Master Workers".

Next we filled in the "Survey-Link"-template provided by AMT, and the result of this is shown in Figure 4.6. It contains a title and a short description. In the description we linked to the homepage of the Norwegian University of Science and Technology, to emphasize the seriousness of the survey. In addition it contained the link to the survey on SurveyMonkey, as well as a field for the users to enter a survey code. This code was provided to them after they completed the survey. This was an assurance for us, so we only paid the people who actually took the survey. To avoid workers cheating with the code (for example getting the code from a fellow AMT-worker), we changed it several times during its lifetime.

After editing the project as described above, the HIT was ready to be published. The published HIT is shown in Figure 4.7. After filtering on HITs requiring Master qualification, our HIT is shown at the top. Once our HIT was out, all we could do was to monitor it (approve or discard answers), and wait for people to respond.

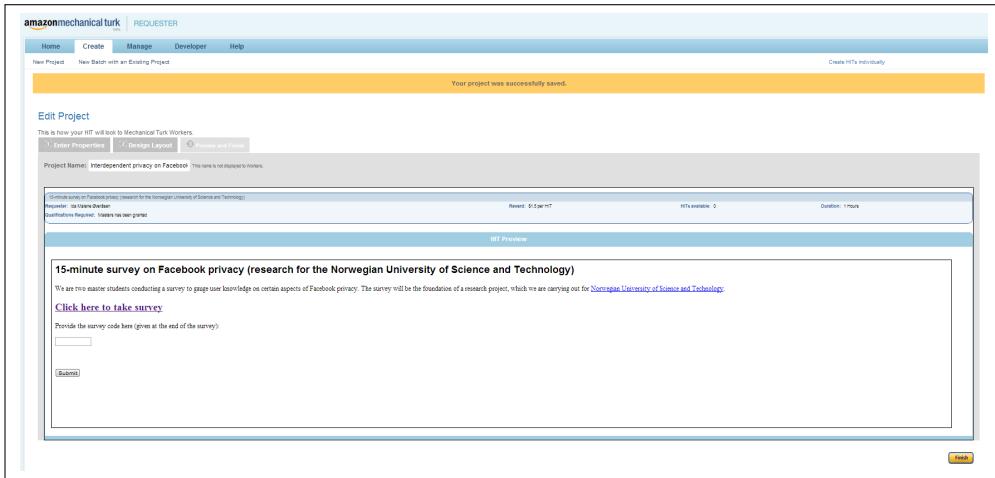
We mainly wanted to distribute our survey on AMT, both to try it out as a research tool and because of its high diversity. But in addition to distributing the survey on AMT, we decided to also share it with our friends on Facebook. We wanted to reach out to a even wider audience, as well as making our Facebook friends aware of their settings. Most of our Facebook friends mainly consist of fellow students, with a high technical knowledge. We were not depending on Facebook to give us many answers. We were hoping for at least 30 respondents from Facebook, but we got 77 respondents and were amazed of the outcome. We posted it and a few times during the 3 weeks the survey was out, we commented on it so it would appear on top of our friends' News Feeds. Three of our friends even chose to share it on their Facebook. This was probably one of the reasons we got so many answers. We posted it on Facebook a few days later than the HIT was published on AMT.

Figure 4.5: Layout for creating an AMT project.

Figure 4.8 and Figure 4.9 shows the daily distribution of number of answers, respectively from AMT and Facebook. You can see from Figure 4.8 that we had the highest peak in responses the day it was published on AMT. The first day we had 55 unique answers, and the second day it dropped to 13 answers. The number of responses varied during the rest of the period, as the figure shows.

## 4.4 Feedback on the Survey

We got a lot of positive feedback on our survey from Facebook friends. Many have liked it, and many have commented on it. The comments focused mainly on the eye opening aspects



**Figure 4.6: The design and layout of the survey on AMT.**

of the survey and that it was informative. Some said the survey made them have a clean-up of their settings. Some mentioned that they thought they had good control over their settings, but after taking the survey they realized that this was not the case. They became aware of something they did not know. Overall, the feedback was very positive. As mentioned above, 3 of our Facebook friends chose to share the survey further, and this suggests that they were pleased with it and thought it was good and informative.

Our survey has also been mentioned in forums on for example mturkform.com and mturkgrind.com. Most of the comments regarding our survey on these forums are about the time consumed taking the survey. The comments we got from mturkforum was: *"Time 5 min 35 sec - slow b/c I wanted to learn more about FB privacy..."* and *"Took 8 minutes, light writing but very simple."* The comments from mturkgrind was: *"About 5 minutes"* and *"Took 8 minutes, very simple and probably could do it in less time. Light writing"*

amazonmechanical turk  
Virtual Human Intelligence

Your Account    HITs    Qualifications    284,173 HITs Available Now

Find HITs    Refining: Containing:    1 2 3 4 5 > Next » Last

HITS    1-10 of 229 Results

Sort by: HIT Creation Date (newest first)    Show all details Hide all details

[View a HIT in this group](#)

**12 minute survey on Facebook privacy: Research for the Norwegian University of Science and Technology**

Requester: [Ida.Holte.Ovesen](#) HIT Expiration Date: Nov 6, 2013 (2 weeks 6 days) Reward: \$1.50 HITs Available: 1

Time Allotted: 60 minutes

[View a HIT in this group](#)

**Answer an survey about website**

Requester: [Buzz.com](#) HIT Expiration Date: Oct 18, 2013 (1 day 22 hours) Reward: \$0.04 HITs Available: 2

Time Allotted: 60 minutes

[View a HIT in this group](#)

**Search Data Entry**

Requester: [RI\\_Services](#) HIT Expiration Date: Oct 13, 2013 (8 weeks 2 days) Reward: \$0.04 HITs Available: 2341

Time Allotted: 30 minutes

[View a HIT in this group](#)

**Answer an survey about website**

Requester: [Brandon.Har](#) HIT Expiration Date: Oct 23, 2013 (8 weeks 22 hours) Reward: \$1.00 HITs Available: 1

Time Allotted: 60 minutes

[View a HIT in this group](#)

**Transcribe a short (long 2 minutes) audio file**

Requester: [Aislar.Cunningham](#) HIT Expiration Date: Oct 23, 2013 (8 weeks 22 hours) Reward: \$1.00 HITs Available: 9

Time Allotted: 3 hours

[View a HIT in this group](#)

**Now to meet you, my name is Harrmizee.com**

Requester: [Felix.D](#) HIT Expiration Date: Oct 22, 2013 (6 days 20 hours) Reward: \$0.05 HITs Available: 1

Time Allotted: 12 minutes

[View a HIT in this group](#)

**Judge the sentiment expressed toward: Information provided in the JONI blog about surveillance programs**

Requester: [LouAnne.Cattellier](#) HIT Expiration Date: Oct 19, 2013 (3 days 20 hours) Reward: \$0.05 HITs Available: 1

Time Allotted: 60 minutes

[View a HIT in this group](#)

**Look up ticker symbol of a Stock, Mutual Fund, or ETF given its name**

Requester: [Lukewood.Design](#) HIT Expiration Date: Oct 26, 2013 (1 week 5 days) Reward: \$0.10 HITs Available: 1

Time Allotted: 30 minutes

[View a HIT in this group](#)

**Judge the sentiment expressed toward: Similarity of Words**

Requester: [QUT crowd](#) HIT Expiration Date: Oct 19, 2013 (3 days 19 hours) Reward: \$0.02 HITs Available: 44

Time Allotted: 60 minutes

[View a HIT in this group](#)

**Please Help Us in this survey**

Requester: [Julie.Ann.Pooley](#) HIT Expiration Date: Oct 18, 2013 (2 days 19 hours) Reward: \$1.30 HITs Available: 1

Time Allotted: 20 minutes

[View a HIT in this group](#)

F.A.Q. | CONTACT US | CHANGES AT AMT | TERMS OF USE | PRIVACY | PRESS | PROFILE | LOGOUT

Figure 4.7: Our HIT is published. This figure shows our HIT in the list of all HITs available that requires "Master Workers".

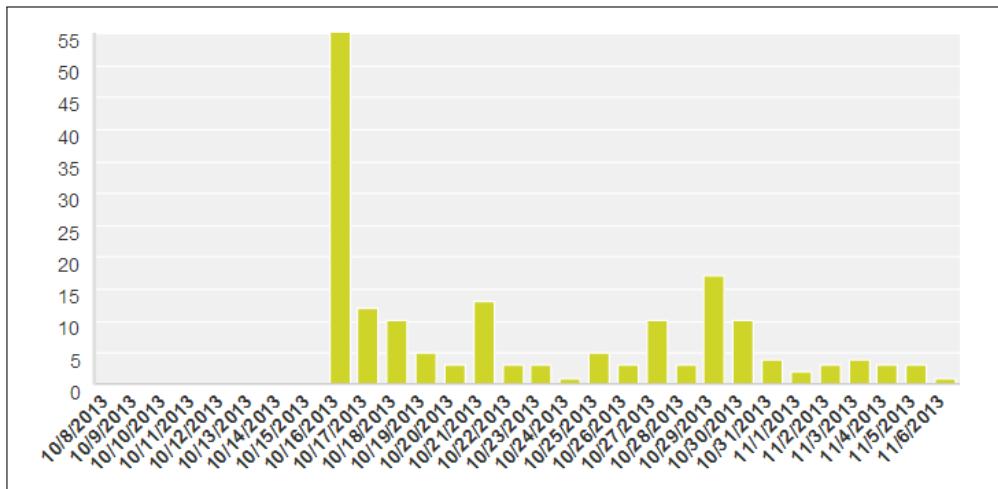


Figure 4.8: Daily distribution of number of answers from AMT.

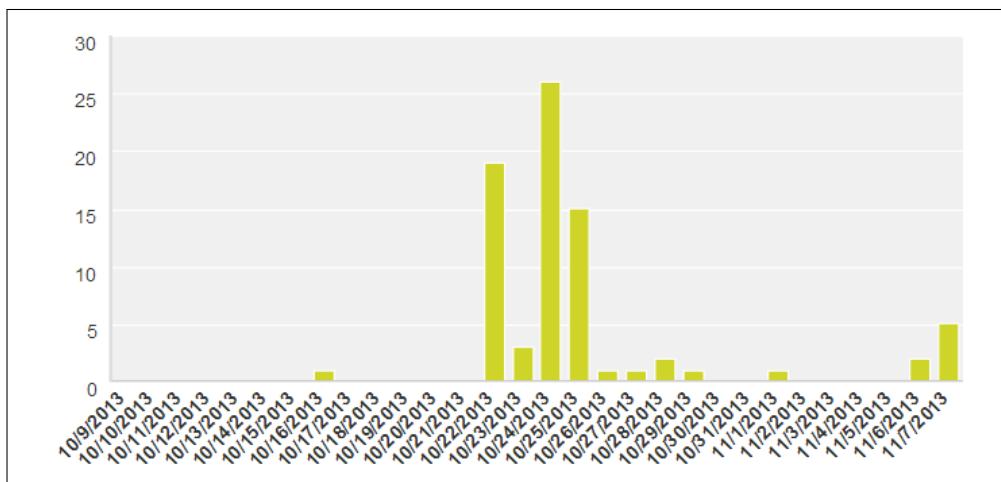


Figure 4.9: Daily distribution of number of answers from Facebook.

# Chapter 5

## The Survey Results

The survey we created was available for 3 weeks, and in that time period we collected 250 responses from 13 different countries. In this chapter we will go through the results of the survey. First we will go through the demographics to get an image of our respondents. We will then compare and analyze the results with focus on how often the respondents check their Facebook settings, and their app awareness. We looked at how "the ones who have never checked their Facebook privacy settings during the last year", and "the ones who check their Facebook settings once a month or once a week or more" has changed their settings from the default settings. We will then look at the questions regarding the users' personal experience. After this we go through and analyze the questions regarding Facebook apps, and the interdependent privacy issues related to them.

From these analysis we investigate the following hypotheses:

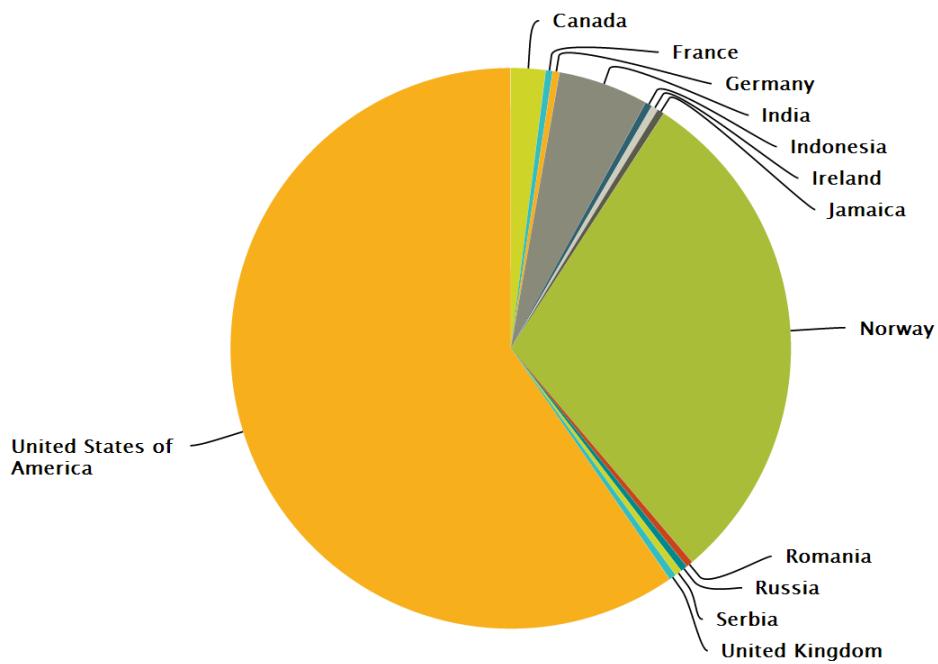
**Hypothesis 1** "The ones that check their Facebook settings seldom do not have as private/secure settings, and do not have as much knowledge about app permission requests as the ones who check their Facebook settings often."

**Hypothesis 2** "The ones with many apps have less knowledge about the app permission requests, and less knowledge about the existence of the setting "Apps others use"."

Last, but not least we will draw some comparisons between the results, and look at the results that were not as expected and did not correlate with our hypothesis.

### 5.1 Demographics

As mentioned before, we distributed our survey on two platforms; Amazon Mechanical Turk (AMT) and Facebook. In total, we received 250 responses from 13 different countries. As you can see in Figure 5.1, the distribution of countries was mainly divided between two, the United States of America and Norway. Other countries were also represented; Canada,



**Figure 5.1: Total distribution of the participant's country of origin.** Most of the participants are from the United States of America and Norway.

France, Germany, India, Indonesia, Ireland, Jamaica, Romania, Russia, Serbia and United Kingdom. 77 of the 250 responses were collected through the Facebook link, and out of these people 96% (74 people) were from Norway. 173 of the 250 respondents took the survey via Amazon Mechanical Turk, and out of these people 85.5% (148 people) were from the United States of America.

**Gender.** The majority of the total respondents were female. They accounted for 56.80% of the responses (142). This means that 43.20% of the total respondents were male, with a 108 responses. We saw a difference in the gender distribution from the Facebook link and from AMT. On AMT 38.15% were men, and 61.85% were female. On Facebook 54.55% were male, and 45.45% were female. In other words the majority of respondents on AMT were females, in contrary to Facebook, were the majority of respondents were men. The difference in gender distribution is shown in the Figure 5.2.

Among the participants, the age ranged between 19 and 76. The average age was 31. If we look at the difference in age between the respondents from AMT and Facebook, we see

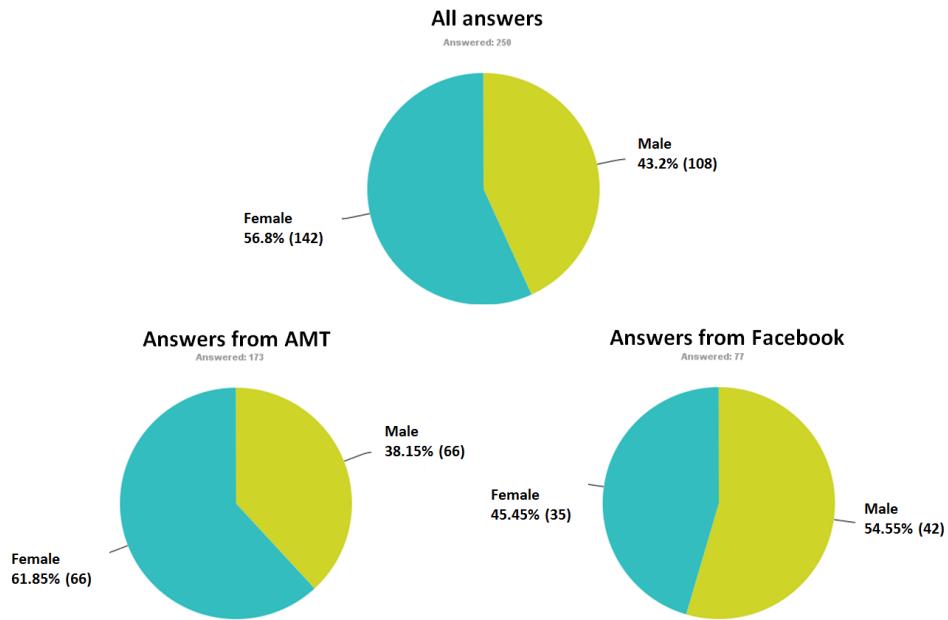


Figure 5.2: **Gender distribution.** This graph shows the overall gender distribution (on the top), gender distribution from AMT (to the left) and the gender distribution from the Facebook link (to the right).

that the average age of the AMT respondents is 33 and the average age of the Facebook respondents is 27. In others words the AMT respondents have a higher average age than the respondents from Facebook. This difference in age comes from the fact that most of the respondents from Facebook were our friends, and most of them are in their mid-twenties.

When we look at the total income of the household per year and employment status, we found a wide range of variety among the participants. We had several participants in each group of income. Although the majority of the participants were employed for wages or students, all of the other employment statuses was represented. This was consistent with former studies of AMT users [29].

## 5.2 Users' personal experience

Out of the 250 respondents 11 answered yes on the question "Have you ever experienced that your use of Facebook has affected your professional life?". 3 of these 11 have had their professional life affected in a negative way, and 8 was affected in a positive way.

50 of the 250 respondents stated that their use of Facebook had lead to uncomfortable situations, for example concerning unpleasant messages and/or inappropriate comments or

pictures. The majority of the situations concerns unwanted pictures (where they do not look good) shared beyond their preferred audience and inappropriate comments on pictures of them. Some also mention cases of stalking. Some of the comments are shown below:

- *"I had a friend I parted ways with harass me on Facebook by threatening messages, posts to photos about me, etc. I also had sexual harassment over Facebook message by an ex boyfriend, inappropriate comments and propositions I was not interested in."*
- *"Before I changed my settings, someone posted a picture of me that I did not want to share with everyone else."*
- *"An ex girlfriend was using Facebook to get information about me and my friends."*
- *"I shared (public) a photo from a friends timeline which he had posted to a limited set of friends, he got mad."*
- *"I have many younger friends on Facebook (underage), and I would like to be a good role model. So sometimes there have been pictures of me consuming alcohol, and I don't want my younger friends to see that. I now have customized my settings, so they only see my personal posts which doesn't include alcohol/smoking etc."*
- *"Someone commented something on a photo I was tagged in that I don't want everyone to know about me"*
- *"I girl posted a naked photo of me."*
- *"Just pictures of me not looking my best being posted by friends who then tag me and suddenly everyone - friends of friends, etc. can see the pics. It wasn't disasterous or inappropriate, but those weren't pictures I wanted old classmates from high school to look at (unless we are friended on FB)"*

39.6% of the total respondents have blocked one or more due to uncomfortable situations or harassment.

To see how much a person values their privacy, we asked them to state on a scale from 1 to 5 to what degree they care about what is published about themselves. 1 is "I don't care at all. Everything can be public" and 5 is "I untag and hide everything that is published of me". The majority (35.6%) answered 3 on the scale. When people were asked to elaborate on this topic, the comments ranged from "*I don't trust the Internet*" to "*I don't untag everything, because the point of the site is to be social*". Many say that they frequently untag photos they do not want others to see. One of the respondents said "*It's a tricky dilemma, because when you untag you also loose control over what happens with the picture/post*".

From our results, it seems like people care more about what they post of others, than what is posted about themselves. When we asked them to what degree they are selective about

what they post about others on a scale from 1 to 5, where 1 is "I am not selective at all, I post everything" and 5 is "I never post anything about anyone", the majority answered 4. This shows that people are very selective when it comes to posting things about others. When people were asked to elaborate on this topic, the comments ranged from "*I post whatever I want without care*" to "*I think before posting how what I am posting might affect myself and the person I am tagging or may be in the picture. I understand that some content can have affects on others*".

## 5.3 Investigating Hypothesis 1

In this section we will investigate Hypothesis 1: "The ones that check their Facebook settings seldom do not have as private/secure settings, and do not have as much knowledge about apps permission requests as the ones who check their Facebook settings often".

### 5.3.1 Never Checked Facebook Privacy/Security Settings During the Last Year

30 of the people who answered our survey stated that they have never checked their settings during the last year. Even though they have not checked their settings during the last year, most of them have done some changes to their settings before the previous year. The reason for this assumption is that their settings differ from the default settings. The average number of friends for the people who have never checked their Facebook settings during the last year is 162, and their average age is 39.

Never checked Facebook settings during the last year (30 of 250 people)			
	Default	More private/secure	Less private/secure
Q5. Who can see your future posts?	36.67%	63.33%	
Q6. Who can look you up using the email address or phone number provided?	76.67%	23.33%	
Q7. Do you want other search engines to link to your timeline?	73.33%	26.67%	
Q8. Who can post to your timeline?	96.67%	3.33%	
Q9. Review posts friends tag you in before they appear on your timeline.	76.67%	23.33%	
Q10. Who can see posts you've been tagged in on your timeline?	33.33%	60.00%	6.67%
Q11. Who can see what others post on your timeline?	40.00%	56.66%	3.33%
Q12. Review tags people add to your own posts before the tags appear on Facebook	86.67%	13.33%	
Q13. When you're tagged in a post, who do you want to add to the audience if they aren't already in it?	96.67%	3.33%	
Q33. Are you using secure browsing when using Facebook?	86.67%		13.33%
Q34. Are you using login notification?	63.33%	36.67%	

Figure 5.3: Never checked Facebook privacy/security settings during the last year.

In Figure 5.3 you can see the percentage distribution over Facebook settings among the people who have never checked their Facebook privacy settings during the last year. We have divided these respondents into three categories; "Default", "More private/secure", and "Less private/secure". The respondents end up under the category "Default" if their setting is similar to the default setting anno 2013. See section 3.2.2 for more detailed description of the default settings on Facebook. The respondents end up under the "More private/secure" category if their settings have been changed from the default setting to a more secure setting. The "Less private/secure" is for those who have made changes to their setting which is less secure than the default setting. As shown in Figure 5.3, the majority of these respondents have not changed their settings from the default settings.

The majority of these users are active users, 67% of them checks their Facebook page at least once a day. 60% of the people who had never checked their Facebook settings during the last year *did not* consider changing their settings after reviewing them. 40% of them wanted to make their settings more private/secure.

*"Now you have scared me. I am alone and afraid."* - 67 year old woman with Ph.D and 5 Facebook friends.

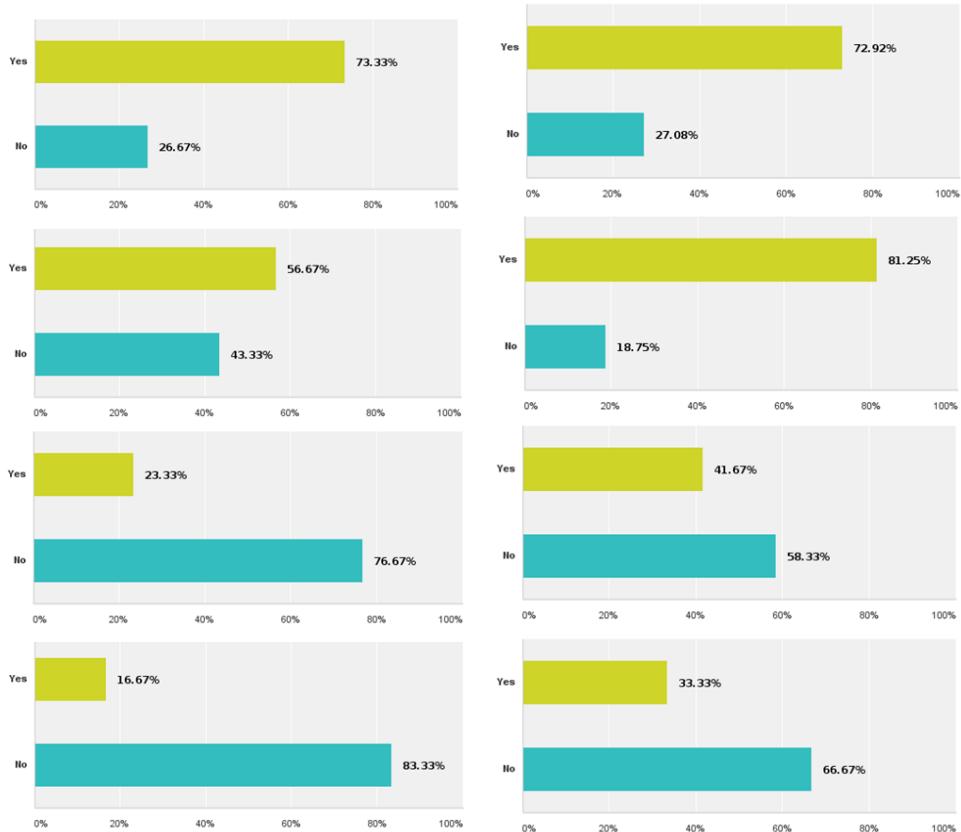
## App Awareness

73.33% of these 30 respondents were aware of the fact that all apps on Facebook access their basic information. Less of them were aware that many apps post on your behalf (56.6%). Figure 5.4a shows the percentage distribution from the questions regarding apps' permission requests (Questions 25-29 in Figure 4.3 and Figure 4.4). The two on top shows the ones just mentioned respectively. As you can see, the amount who answered "No" increased drastically on the last two questions. The third question asks for the users awareness regarding the fact that some apps access your friends' private information, and the fourth and last regard the fact that some apps have access to relational information (such as private chat messages).

### 5.3.2 Checks Facebook Privacy/Security Settings "Once a month" or "Once a week or more"

48 of the people who answered our survey stated that they check their settings "Once a month" or "Once a week or more". The average number of friends for these people is 416, and their average age is 28.5. The average age of this group is almost 10 years lower than for the group of people that have not checked their settings during the last year.

In Figure 5.5 you can see the percentage distribution of what kind of settings the people who check their settings "Once a month" or "Once a week or more" have. We have divided them into the same categories as above; "Default", "More private/secure", and "Less private/secure".



(a) Never checked during the last year (30 of the total respondents). (b) Checked "Once a month" or "Once a week or more" (48 of the total respondents).

Figure 5.4: The distribution of question 26-29 regarding app awareness comparing those who have never checked their settings during the last year, and those who have checked their settings "Once a month" or "Once a week or more".

Checks Facebook settings "Once a month" or "Once a week or more" (48 of 250 people)			
	Default	More private/secure	Less private/secure
Q5. Who can see your future posts?	8.33%	91.67%	
Q6. Who can look you up using the email address or phone number provided?	31.25%	68.75%	
Q7. Do you want other search engines to link to your timeline?	18.75%	81.25%	
Q8. Who can post to your timeline?	81.25%	18.75%	
Q9. Review posts friends tag you in before they appear on your timeline.	33.33%	66.67%	
Q10. Who can see posts you've been tagged in on your timeline?	12.50%	81.25%	6.25%
Q11. Who can see what others post on your timeline?	12.50%	81.25%	6.25%
Q12. Review tags people add to your own posts before the tags appear on Facebook	43.75%	56.25%	
Q13. When you're tagged in a post, who do you want to add to the audience if they aren't already in it?	54.17%	45.84%	
Q33. Are you using secure browsing when using Facebook?	85.42%		14.58%
Q34. Are you using login notification?	33.33%	66.67%	

Figure 5.5: Checks Facebook privacy/security settings "Once a month" or "Once a week or more".

85% of the people who checked their Facebook settings "Once a month" or "Once a week or more" during the last year, has checked their Facebook page at least once a day during the last month. This indicates that the majority of those who check their settings frequently are also very active Facebook users.

70.83% of these people did not consider changing their settings after reviewing them. 27.08 % wanted to make their settings more private/secure, and 2.08% considered changing them to more public.

*"Privacy is important to me. It is meaningless not to give others the same courtesy"* - 43 year old man with 420 Facebook friends.

## App Awareness

72.92% of these 48 respondents were aware of the fact that all apps on Facebook access their basic information. A larger number of these respondents were aware that many apps post on your behalf (81.25%). Figure 5.4b shows the percentage distribution of the four app awareness questions (Questions 25-29 in Figure 4.3 and Figure 4.4). The two on top shows the ones just mentioned respectively. As you can see, the share who answered "No" increased on the last two questions. The third question asks for the users awareness regarding the fact that some apps access your friends' private information, and the fourth and last regard the fact that some apps have access to relational information (such as private chat messages).

### **5.3.3 Correlation with Hypothesis 1**

After looking at the results from the ones who check seldom and the ones who check frequently we will in this section draw some lines and comparisons between these two distinct groups. As well as look at how this correlates with our initial hypothesis.

#### **Activity Level**

The majority of both groups checks their Facebook page at least once a day. The percentage is higher for the people who have checked their settings "Once a month" or "Once a week or more" during the last year. 85% of them checks their Facebook page at least once a day, in contrast to the other group (who have never checked their settings during the last year) with 67% checking their Facebook page at least once a day. This indicates that the ones who have never checked their settings during the last year does not refrain from doing this because they are inactive users. One assumption for this may be that the users are unaware of the settings. 40% of them stated that they wanted to make their settings more private after taking the survey. This backs up the assumption about unawareness.

#### **More Secure Settings for Those Who Check Their Settings More Often?**

If we compare Figure 5.3 and Figure 5.5, we see a clear difference between the two group. A larger percentage of the ones who check frequently have changed from default to a more secure option. The percentage of changes made to a more private/secure option is much higher for all settings listed for those who checks frequently. Some of the settings shows a remarkable difference between the groups. We want to accentuate the settings that concern interdependent privacy. When we look at the setting "Review posts friends tag you in before they appear on your timeline" for the ones that never checked during the last year, only 23.33% have changed to a more secure option. For the ones that check frequently, 66.67% have changed to a more secure option. Another example is the setting "Review tags people add to your own posts before the tags appear on Facebook" where 13.33% of the ones who never have checked their settings during the last year changed to a more secure option. On the contrary, as many as 56.25% of the frequent settings-checkers have changed to a more secure option. These results back up Hypothesis 1: the ones who check their settings frequently have more secure/private settings than the ones who check their settings seldom.

#### **Considered Changing Settings**

The percentage of those wanting to make their settings more private is higher for those who have never checked settings during the last year with 40% of the group. Only 27% of the frequent setting-checkers wanted to make their settings more private. None of the people who have never checked their settings during the last year wanted to make their settings more public, unlike the other group (those who check "Once a month" or "Once a week or more") where 2% actually considered changing them to more public. Overall the frequent

settings-checkers were more pleased with their settings than the ones who had never checked them during the last year. 70% of the frequent settings-checkers did not consider changing their settings after reviewing them. Although the ones who have never checked their settings during the last year have far less secure settings than the other group, 60% of them did not consider changing their settings either.

## **App Awareness**

When comparing Figure 5.4a and Figure 5.4b there is no big difference between the two groups on first question regarding that all apps access basic information. On the second question (regarding apps posting on your behalf) we see a remarkable difference between the two groups. The ones that frequently checks their settings were to a much higher extent aware (81.25%) of this fact. In comparison 66.67% of the ones who have not checked their settings during the last year were aware of this fact. On the last two questions almost twice as many of the ones that check their settings frequently were aware of the permission requests. These results backs up Hypothesis 1: the ones that check their settings frequently are in general more aware of the permissions apps request.

## **Comparisons with Previous Work**

In the article "Analyzing Facebook Privacy Settings: User Expectations vs. Reality" [12] they found that modified privacy settings match the users expectations only 39% of the time (This is elaborated in section 2.3). In our case this number is much higher, 70.83% of the frequent setting-checkers stated what they did not consider changing their privacy settings after reviewing them. This is an interesting observation. The previous research was done in 2011, and a lot has changed since then with regard to privacy settings. One assumption is the ongoing attention towards online security. With the media trying to make people aware of how easy it is to access ones information on the web.

In the other article mentioned in 2.3, "Facebook privacy settings; Who cares?" [22] they found that among the majority both genders were equally confident in changing their Facebook privacy settings. Our survey backs up this finding to some extent. The majority of both females and males have changed their settings to a more private option, but our research shows that females focus more on who can see their posts and posts they have been tagged in and who can look them up. 83.1% of the females have changed the settings "Who can see posts you've been tagged in on your timeline?" to a more private option and 80.25% of the females have changed the setting "Who can see what other's post on your timeline?" to a more private option. In both of these settings, this is almost 10% more than for males. In contrary, males have a larger focus on security, with more secure options on settings like "Login notification" and "Secure browsing".

## 5.4 Interdependent Privacy

A big part of our survey focus on apps and the issues related to apps which concerns interdependent privacy. When installing an app on Facebook, most apps ask for permission to access information in addition to your basic information (name, profile picture, cover photo, gender, networks, username, user ID, your list of friends, and any information you choose to make public). We wanted to map the awareness of the respondents when it came to apps, and to what degree they knew about the information apps access.

### 5.4.1 Users' Knowledge About the Term "Interdependent Privacy"

We also wanted to find out whether or not the respondents had knowledge about the term interdependent privacy. We asked the question "Do you have any idea about what interdependent privacy can mean in regard to Facebook?" both before and after the app-related questions. We specified in the question that they were not allowed to use Google or any other search engine to find the answer. If they did not know the answer it would be preferable for us if they skipped the question. It would not be of any value for us, if they searched for the "definition". We wanted to see if people could come up with their own idea of the term. 136 of the 250 respondents answered that they did not know the meaning of the term, or skipped the question, both before and after the app-related questions. 69 of the respondents skipped the first time they were asked about the term, but answered the second time. Even though everything was not entirely correct, a lot of people seemed to have gotten some idea of what the term evolves around after answering the question about apps. Table 5.1 shows some of the answers, both before and after the app-related questions. See Appendix B for all responses.

Table 5.1: Peoples thoughts of what is meant by interdependent privacy before and after answering questions about privacy issues regarding the use of Facebook apps.

Q24. Do you have any idea about what interdependent privacy means?	Q31. Do you have any idea about what interdependent privacy means after answering questions regarding privacy issues using Facebook apps?
<p><i>"I have no idea what interdependent privacy means. It almost does not make sense to put those two words together. If you have privacy, it should not depend on another party to make it private. That defetes the whole purpose of "private"."</i></p>	<p><i>"Hmn. I guess it makes sense now, seeing that apps can do that to people who are friends."</i></p>

<p><i>"I would image it relates to one person's privacy being compromised or supported by another user's privacy settings."</i></p>	<p><i>"Yes, I understand what it means now. If a friend of mine permits an app to access their info then they have a certain amount of access to my info."</i></p>
<p><i>"I think it's when my picture is visible to only friends but then a friend of mine re-shares it, so I have to rely on that friend to keep my stuff private too."</i></p>	<p><i>"I think I was close to right. Relying on others' settings to keep my privacy."</i></p>
<p><i>"I think it means that people you allow to see things can also allow others to see it if they chose to, with or without your permission but I am not sure about this."</i></p>	<p><i>"I think that it means if you give an app permission to use your information, the app can then use the information in any way it wants to. This is why I do not use any apps because I do not trust them period."</i></p>
<p><i>"I think it has to do with other sites and apps allowing you to sign into or register for accounts using your facebook account. You would now have another set of privacy policies to review and how the two sites work together"</i></p>	<p><i>"Apps you use can disregard your privacy settings with facebook and play by their own rules - so I have to be much more diligent."</i></p>
<p><i>"I think it means that people you allow to see things can also allow others to see it if they chose to, with or without your permission but I am not sure about this."</i></p>	<p><i>"I think that it means if you give an app permission to use your information, the app can then use the information in any way it wants to. This is why I do not use any apps because I do not trust them period."</i></p>
<p><i>"It's something about where someone else saying something (like Bob saying "Bob is at the restaurant with Mike") can reveal information about another person (in this case, that Mike is at the restaurant)."</i></p>	<p><i>"Maybe it's: Facebook taking other people's info based on something I do."</i></p>
<p><i>"My privacy can be affected by those I share with. Just because I make something private does not mean that my friends won't pass it along, making it no longer private."</i></p>	<p><i>"You are not the only person in control of your privacy. If you don't use the right settings, other people can share information you think is private."</i></p>
<p><i>"I have no control over what info my friends share about me"</i></p>	(Skipped)

<i>"Nope. I will for sure google it now."</i>	<i>"That it's obv. not only facebook who can access my privacy settings, that this so called privacy is interdependent and I am in charge of setting those settings myself if I don't want it to be that interdependent."</i>
<i>"What others can do to your privacy if you "let them"?"</i>	<i>"Yes. what concerns your privacy that you dont know of, that your friends do to your privacy ish."</i>
<i>"My privacy depends on others"</i>	<i>"The apps are allowing people to see things that are private. It's interdependent on FB."</i>
<i>"I would say it means it depends on what others would post or say about you, or give out your private things."</i>	<i>"You can control what you share, but not what others do or say that may infringe on your privacy."</i>
<i>"No"</i>	<i>"Getting access through games and friends."</i>
(Skipped)	<i>"My privacy setting depends also on other users, with the help of apps. I think this is what interdependent privacy means."</i>
(Skipped)	<i>"Maybe other apps can take information from your friends without their knowing."</i>
(Skipped)	<i>"It seems to be privacy independent from privacy settings. It appears apps can override general privacy settings."</i>
(Skipped)	<i>"That apps I put on my FB page can access my friend's accounts, information and activities. I am always very careful to select "ONLY ME" when they ask whose wall they can post to - but I wasn't aware that apps were independently able to access the information of my friends without my consent."</i>
(Skipped)	<i>"I think that it means that the apps that I use can have an effect on my friends privacy."</i>

## 5.5 Investigating Hypothesis 2

In this section we will investigate Hypothesis 2: "The ones with many apps have less knowledge about the app permission requests, and less knowledge about the existence of the setting "Apps others use".

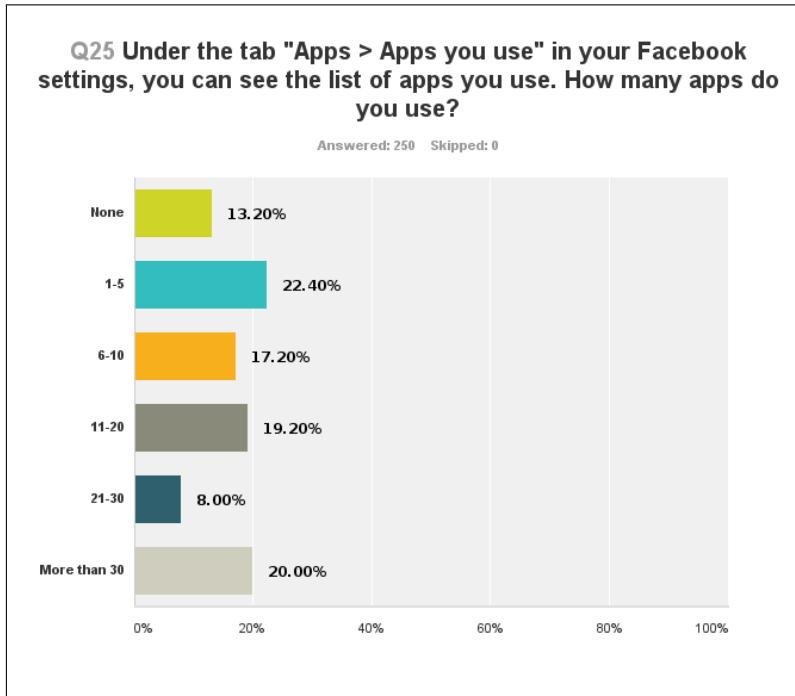


Figure 5.6: Question 25 - Displaying the distribution of number of apps among the 250 respondents.

### 5.5.1 Number of Apps Connected to Facebook

In the apps settings, there is a list of all apps the user have connected to Facebook. Figure 5.6 show the amount of apps the respondents have. The distribution is close to even for all the alternatives. 86.8% of the total respondents have at least one app connected to their Facebook. 20% of the respondents have more than 30 apps connected to their Facebook and 13,20% have zero apps connected to their Facebook. In other words, a higher percentage of the respondents have more than 30 apps connected to their Facebook in comparison to zero apps.

### 5.5.2 Users' Awareness Regarding App Permission Requests

Figure 5.7, Figure 5.8, Figure 5.9 and Figure 5.10 show the results from question 26, 27, 28 and 29, where we ask the respondents about their awareness regarding the information

**Q26 Are you aware of the fact that ALL apps you install on Facebook have access to your basic information, including the list of your friends?**

Answered: 250 Skipped: 0

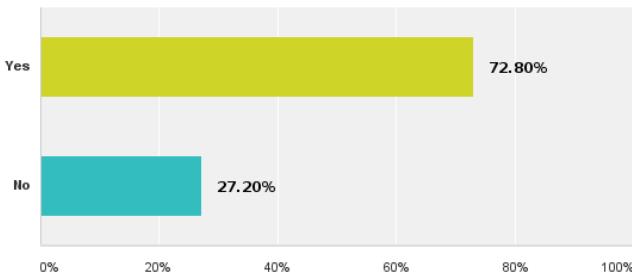


Figure 5.7: Question 26 - Displaying the awareness of the fact that all apps access your basic information.

**Q27 Did you know that A SIGNIFICANT PORTION of Facebook apps you install can post information on your behalf to your and your friends' timeline? (E.g., Spotify posts songs you have listened to.)**

Answered: 250 Skipped: 0

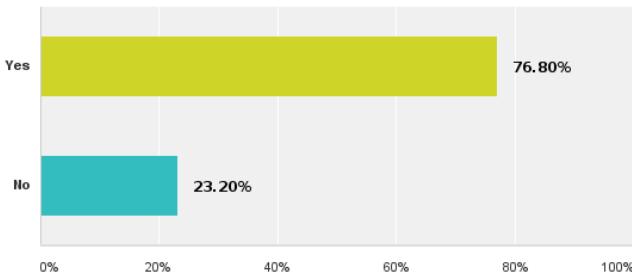


Figure 5.8: Question 27 - Displaying the awareness of the fact that a significant portion of apps post on your behalf.

apps request. The two first figures (concerning basic information and apps posting on your behalf) shows that the majority of the respondents were aware of the facts presented. The two last figures, on the other hand, show that the majority were unaware of the permission requests. The two first questions are more visible for the users, it is stated many times that all apps access your basic and public information. In addition the users experience apps

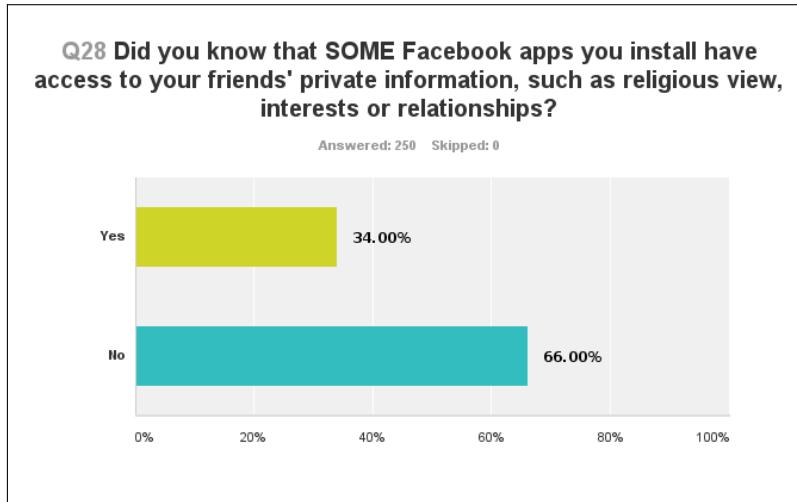


Figure 5.9: Question 28 - Displaying the awareness of the fact that some apps access your friends' private information.

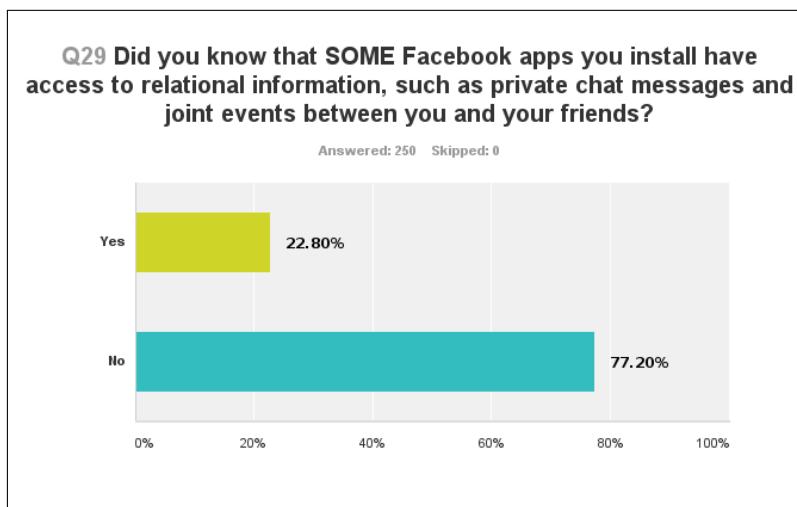


Figure 5.10: Question 29 - Displaying the awareness of the fact that some apps access relational information.

posting both on their behalf and on friends' behalf (for example Spotify posting play lists or songs you have listened to). The last two questions (concerning friends private information and access to relational information) are more hidden from the users, because nothing is posted or viewable etc. The users are not notified when the apps access this information, and therefore have no idea of what is specifically retrieved, when it is used, and for what purpose.

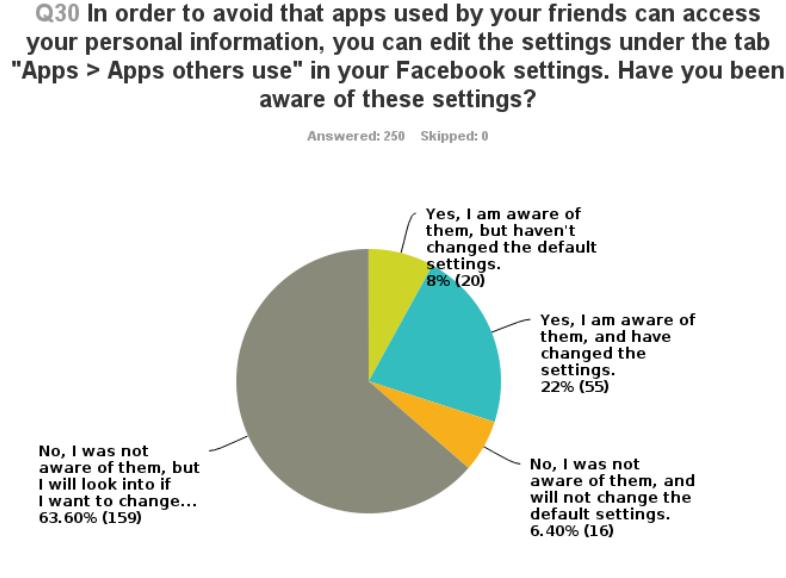


Figure 5.11: Question 30 - Displaying the awareness of the setting "Apps others use" among all of the 250 respondents.

We therefore think it is less knowledge about these permission requests.

### 5.5.3 Awareness of the Setting "Apps others use"

Question 30 (Figure 5.11) does not only ask for a simple "Yes" or "No" answer to whether or not they are aware of the setting "Apps others use". The possible answers for the question is "Yes, I am aware of them, but I haven't changed the default settings", "Yes, I am aware of them, and have changed the settings", "No, I was not aware of them, and will not change the default settings" and "No, I was not aware of them, but will look into if I want to change my settings now". The majority (70%) of the respondents were not aware of the existence of this setting.

### 5.5.4 Many vs. Few Apps

Figure 5.12 shows the results of the comparison of app awareness between those with many apps (21 apps or more) and those with few apps (5 apps or less). On question 26 the distribution is close to equal for those with many apps and those with few. This is a relatively common known fact, because information about apps always requesting basic information is stated on the top of the app settings, as well as always on top of the list when installing an app. Question 27 shows that the people with many apps were more aware of the fact that a significant portion of apps post on your behalf. We think the reason for this is that the people

	Many apps		Few apps	
	Yes	No	Yes	No
Q26. Are you aware that ALL apps access basic information?	75.71%	24.29%	74.16%	25.84%
Q27. Do you know that a significant portion of apps post on your behalf?	81.43%	18.57%	74.16%	25.84%
Q28. Do you know that some apps access friends' private information?	27.14%	72.86%	35.96%	64.04%
Q29. Do you know that some apps access relational information?	17.14%	82.86%	29.21%	70.79%
Q30. Are you aware of the setting "Apps others use"?	28.57%	71.43%	37.08%	62.92%

Figure 5.12: **App awareness - Comparing those with many app and those with few apps.** Percentage distribution of the answers to all of the app questions differentiating the 70 people with many apps (21 apps or more) and the 89 people with few apps (5 or less).

who frequently use apps have more experience when it comes to apps posting on their behalf, and this makes them more aware of this fact. When apps post on behalf of a user, it is shown as a post on their timeline. This is something the user experiences hands on. In addition to this, people who use many apps are more accustomed to the permission requests from Facebook, because they see them more frequently. Question 28 and question 29 on the other hand, are not visible for the naked eye. Although, this is stated in the permission request, it is never visible for the user what information is accessed and retrieved by the apps. The last question (30) concerns the setting "Apps others use" found under the App tab in your Facebook settings. Here the user can choose which information the apps your friends install can access. Our results show that 37.08% of those with few apps were aware of the existence of this setting. 28.57% of the ones with many apps were aware of it's existence.

### 5.5.5 Correlation with Hypothesis 2

In this section we will compare those with many and few apps connected to their Facebook in regard to their awareness when it comes to permission requests from apps and the setting "Apps other use". As well as look at how this correlates with our initial hypothesis.

#### Does the Ones With Many Apps Have Less Knowledge About the App Permission Requests?

We wanted to find out whether or not people with many apps connected to their Facebook had more or less knowledge when it came to the app-related questions, than people with few apps connected to their Facebook. Our hypothesis were that the ones with many apps have less knowledge about the privacy issues related to apps. The reason for this assumption is that we thought if people were aware of all the permissions they agree/agreed on, they would not have had that many apps to begin with, because of the privacy breach apps cause. In

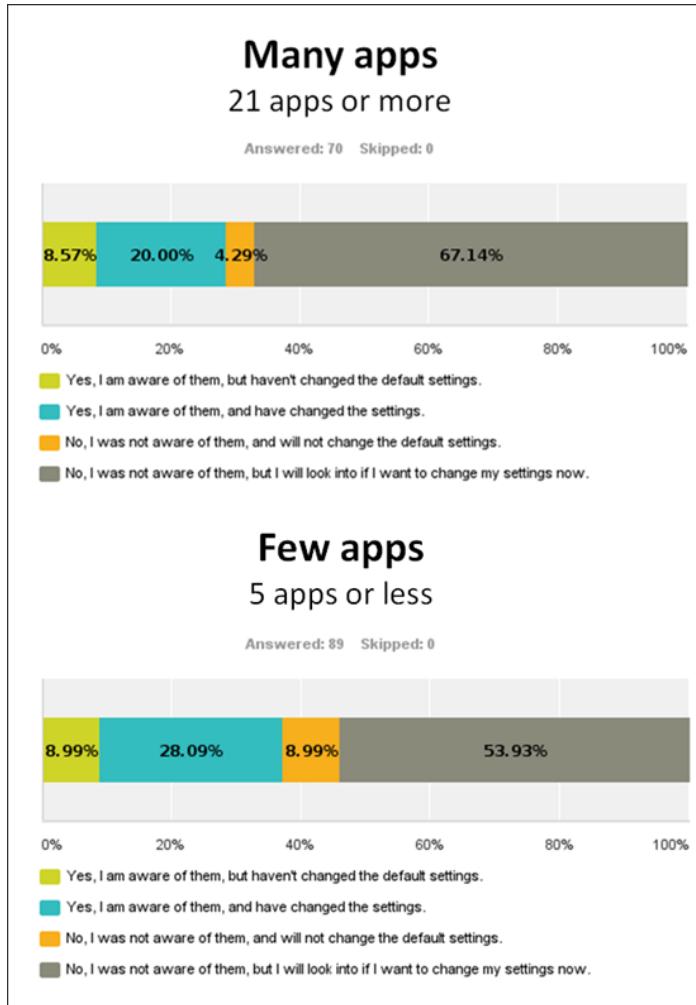


Figure 5.13: Awareness of the setting "Apps others use" - Comparing those with many app and those with few apps.

other words, we thought that those with few apps had more knowledge about the privacy issues related to apps, and therefore chose to refrain from installing apps and/or are frequently deleting the apps not in use. The percentage of people aware of the facts presented in question 28 and question 29, is higher for those with few apps than for those with many apps (see Figure 5.13). About 10% less of the ones with many apps were aware of the facts presented in both questions. This backs up our hypothesis that the ones with many apps have less knowledge about the app permission requests.

### **Awareness of the Setting "Apps others use"**

When it comes to the awareness of the setting "Apps other use", the option "No, I was not aware of them, but I will look into if I want to change my settings now" was significantly higher for those with many apps (see Figure 5.13), which means a higher portion of those with many apps were unaware of this setting and dissatisfied with the configuration of their setting, compared to the ones with few apps. Another observation is that the alternative "Yes, I was aware of them, and have changed the settings" is higher for those with few apps. These results backs up our hypothesis that the ones with many apps have less knowledge about the existence of the setting "Apps others use".

### **Comparison to Previous Work**

An issue discussed in the paper "Third-Party Apps on Facebook: Privacy and the Illusion of Control" [6] is the importance of user control of the data apps access, and that it should be made clear to the user what information they give the apps permission to access. In this paper, they conclude that it is often unclear to the users what information they agree to share, and that apps often ask for permissions that are in conflict with their privacy settings. These results are in correlation with the results from our survey, since we found that the users are often unaware of the permissions apps request.

# Chapter 6

## Conclusion

Facebook offers a high variety of settings for the users. The users are given full control over their settings, and can themselves choose whom they want to share information with. As default most of the settings are set to the most public option available. Facebook states that the user have full control, and that is the users responsibility to control the audience for the information they share. They also state that the users should not share information they do not want anyone to see, like posting a picture of doing drugs. The most important aspect regarding the Facebook settings is user awareness. If a user is not aware of the existing settings, they are of no value for the user. Many of the respondents expressed that they through taking our survey they became aware of settings they did not know existed. The survey did not only give us valuable research results, but were also informative and educational for the respondents.

When Facebook started as a online environment only available for Harvard students, the privacy was the most important aspect. You needed a valid Harvard email-address in order to sign up. This was an assurance that all users of "Thefacebook" were actual people, and this made the barrier of sharing information much lower. In 2005 nothing was publicly available to the entire Internet. Most of the information a user shared was restricted to network or friends, expect name, profile picture, gender and network that was available to all Facebook users. The default settings became more and more public for every year that went by. Major changes to the default settings happened in November 2009. Then name, profile picture, gender and networks became available to the entire Internet. Most information (wall posts, photos, likes, birthday) was restricted to friends of friends. There exists a theory called "Six degrees of separation" [62], which states that everyone and everything is six or fewer steps away. This means that two people are connected via maximum six steps. So when information is shared with friends of friends, the audience is extremely large. Big changes to the default settings also happened in April 2010, when everything, except contact info and birthday, became publicly available to the entire Internet. With the information becoming increasingly available on the Internet, Facebook also announced more settings possible for the users to edit. Today the entire Internet can see everything by default, except posts you have been tagged in on your Timeline, and others posts on your Timeline which are limited

to friends of friends. There is no doubt that Facebook's development of default settings have become increasingly public. With this development the importance of the users awareness of the existing settings also becomes more and more crucial. It is important that the users follow the development, and change the settings according to their personal preferences.

Along with the development of Facebook, the site also introduced numerous of new features. Some of them affected the users privacy more than others, and received a lot of attention in media. The feature that had the most impact on users' privacy was Facebook's introduction of applications. The main reason that apps affects a users privacy is because of the information apps retrieve. What kind of information apps requests to access is very often unclear to the user. When a user install an app on Facebook, the application shows the user a list of permissions they request to access. These permissions often expand beyond the basic information, such as asking to post on a users behalf, and sometimes asks to access relational information (this may include private chat messages). Often these requests asks for permissions that strides against the privacy settings, and leads to a user sharing information that they originally wanted to keep private. Our research shows that there have been a change in how the permissions request are shown to the user. In 2011 there was a separate page displaying the permission requests. Today Facebook have introduced the App Center, where the permissions requests are shown in small letters on the side of the page, not very obvious to the user. Research done on the permissions page in 2011 showed that it should be more clear to the user when they approved permission request that stride against their initial privacy settings. When we look at the permission page today, Facebook have done the opposite. There is less focus on the permissions, and more on the app in general. There is no doubt that Facebook has become a more public and open platform, and work on the idea of sharing. Facebook always want to customize all information, adds, apps and Newsfeed posts, to the users based on their preferences, like friends interests etc.

Users' awareness when it comes to the settings available on Facebook is extremely important. The majority of all the respondents that took our survey stated that they check their Facebook settings to some degree. Most of them, almost half of the respondents, stated that they check their settings 3-6 times a year. On the contrary only 12% stated that they had not checked their settings during the last year, but they must have done it at some point since their settings differ from the default setting. We saw a contrast in the ones that seldom check their settings and the ones that frequently check. Initially we thought that the ones that frequently check their Facebook settings, have more knowledge of the settings that exists, both the privacy/security settings and the settings regarding apps, as wells as being more active users. This assumption turned out to be correct. The difference between the ones that check seldom and the ones that check frequently were not immense, but large enough to divide these groups. The ones that frequently check had more secure settings on all aspects. These users were in average almost 10 years younger than the ones seldom checking. This might be because of the technological world that today's young generation have grown up in. The elderly generation does not have the same technological knowledge. They are on Facebook

because they have understood that in todays world that is how they stay in contact with old friends and relatives. Several of our respondents express that they have created a Facebook profile of the single reason that to stay in contact with their younger family members.

The ones checking their settings frequently also were more aware of the permissions apps request, than the ones seldom checking. There was also a difference when we looked at the ones having many apps and the ones having few apps connected to their Facebook. We assumed that the ones having few apps connected had more knowledge of the the permissions requests. When knowing how much information an app can access, one would be careful with connecting apps to Facebook. The amount that was aware of the permissions apps request was higher for the ones having few apps connected to their Facebook. Even though it was higher knowledge for the ones having few apps than having many, the overall knowledge of these permissions were low. We think many knows that the applications may access information and therefore refrain from installing any apps, in other words just ignores everything regarding apps. But what one might forget is that even though one might refrain from apps, their friends might not share the same view. For example if Alice chooses to refrain from everything regarding apps, Alice's Facebook friend might love apps and might not be aware that he many times allows apps to access information about Alice, totally without Alice's knowledge. Here the term interdependent privacy really is brought in to light. Alice's privacy is dependent on what Bob does, and to some extent out of her control. The individual user can choose what information they choose to share with apps their feinds use, this is done in the setting "Apps others use". When it came to the awareness of this setting , as many as 70% of the total respondents were unaware of it's existence. In other words 70% of our respondents have shared all types of information with apps their friends install, without being aware of it.

<<< HEAD There is also a difference in how much people care about what they post about others as well as what is posted about them. An interesting observation was that people in general care more about what they post about others than about what is posted about them. Comments from the respondents shows that they are restrictive in what they chose to share about others, and a rule that repeated is that they do not share anything that would not like to be shared of themselves, or that could not be viewed of certain people, like parents, or form a parents perspective, their children. It was also possible to see a difference between men and women, where women care more about the settings rewarding what is posted of them (photos, tags in comments, etc.) and men care more about security settings. But how can the respondents care so much about about what they post, as well as what is posted about them, but not know how much information is shared without their knowledge through apps? ===== What kind of features have Facebook introduced that at some point have affected the user's privacy? How aware are the users of the settings on Facebook, and how often do they check them? To what degree do people care about what they post about others (photos, comments etc.), and what others post about them? Is there a difference in what kind of settings people value depending on demographics? To what degree are people

aware of the different permissions Facebook apps request, and do they know the meaning of interdependent privacy? »»»> 0a25e1608b523cddc03c7dd27b1adb0f9685e9c4

The term interdependent privacy is relatively new, and a term that is becoming more and more important. When we asked whether or not our respondents knew what is meant by the term in regard to Facebook, a lot of people tried to formulate a definition. It was clear that most did not understand the meaning, and together with the low knowledge of the permissions apps ask for, there is no doubt that this an area that should need more focus and attention. As well as an area where users to an higher extent could be educated.

## 6.1 Future Work

The research we conducted in this paper have just touched the surface of the privacy related issues on Facebook and interdependent privacy related to the App Center Facebook offers. There are many aspects to look at for future work. The survey and results we have presented can lay the basis for suggestions for improvements for Facebook. One possibility is to conduct a more detailed and extensive survey. An other approach is to direct the focus more on apps and for example create an app. By doing this look at the privacy related issues from the inside and out. The possibilities are many as this is a big and hot topic.

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# Appendix A

## The survey

This appendix contains the survey as it was shown to the respondents.



## Interdependent Privacy on Facebook

Survey on Facebook privacy (research for the Norwegian University of Science and Technology)

We are two master students conducting a survey to gauge user knowledge on certain aspects of Facebook privacy. The survey will be the foundation of a research project, which we are carrying out for Norwegian University of Science and Technology.

In order to answer some of the questions in this survey, you are required to be logged in to your main account on Facebook, and go to your "Settings" page (accessible as a drop-down menu marked by either a "wheel" or an "arrow" in the top bar of your Facebook starting page). Before such questions you will be directed under which tab you find the requested information.

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## Interdependent Privacy on Facebook

Facebook usage

\*1. Which year did you sign up for Facebook?

[Dropdown menu]

\*2. During the last month, how often did you check your Facebook page?

[Dropdown menu]

\*3. How many friends do you have on Facebook?

[Text input field]

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## Interdependent Privacy on Facebook

### Facebook privacy: settings

\*4. During the past year, how often did you check your Facebook privacy settings?



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## Interdependent Privacy on Facebook

### Facebook privacy: settings

For Q5-Q7: check under the tab "Privacy". (Settings > Privacy)

\*5. What kind of restrictions do you have under "Who can see my stuff"?

Who can see your future posts?

Public

Friends

Only me

Custom

\*6. What kind of restrictions do you have under "Who can look me up"?

Who can look you up using the email address or phone number you provided?

Everyone

Friends of friends

Friends

\*7. What kind of restrictions do you have under "Who can look me up"?

Do you want other search engines to link to your timeline?

On

Off



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## Interdependent Privacy on Facebook

### Facebook privacy: settings

For Q8-Q13: check under the tab "Timeline and tagging". (Settings > Timeline and tagging)

**\*8. What kind of restrictions do you have under "Who can add things to my timeline"?**

Who can post on your timeline?

- Friends       Only me

**\*9. What kind of restrictions do you have under "Who can add things to my timeline"?**

Review posts friends tag you in before they appear on your timeline.

- Enabled (On)       Disabled (Off)

**\*10. What kind of restrictions do you have under "Who can see things on my timeline"?**

Who can see posts you've been tagged in on your timeline?

- Everyone       Friends of friends       Friends       Friends except acquaintances       Only me       Custom

**\*11. What kind of restrictions do you have under "Who can see things on my timeline"?**

Who can see what others post on your timeline?

- Everyone       Friends of friends       Friends       Friends except acquaintances       Only me       Custom

**\*12. What kind of restrictions do you have under "How can I manage tags people add and tagging suggestions"?**

Review tags people add to your own posts before the tags appear on Facebook.

- Enabled (On)       Disabled (Off)

**\*13. What kind of restrictions do you have under "How can I manage tags people add and tagging suggestions"?**

When you're tagged in a post, who do you want to add to the audience if they aren't already in it?

- Friends       Only me       Custom



Prev

Next

## Interdependent Privacy on Facebook

### Facebook privacy: settings

\*14. Now, that you have gone through your privacy-related settings, are you considered changing them?

Yes, to more private

Yes, to more public

No, they are fine



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## Interdependent Privacy on Facebook

### Facebook privacy: personal experience

\*15. Have you ever experienced that your use of Facebook has affected your professional life (future job prospects etc.)?

Yes, positively

Yes, negatively

No



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## Interdependent Privacy on Facebook

### Facebook privacy: personal experience

16. If you answered Yes on the previous question, please describe the situation that occurred.



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## Interdependent Privacy on Facebook

### Facebook privacy: personal experience

\*17. Have your use of Facebook lead to any uncomfortable situations (unpleasant messages, inappropriate pictures or comments etc.)?

Yes

No



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## Interdependent Privacy on Facebook

### Facebook privacy: personal experience

18. If you answered Yes on the previous question, please describe the situation that occurred.



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## Interdependent Privacy on Facebook

### Facebook privacy: personal experience

\*19. Do you use “timeline review”? (Review posts that others tagged you before they appear on your timeline.)

Yes

No

\*20. Have you blocked any persons because you felt uncomfortable/harassed?



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## Interdependent Privacy on Facebook

### Facebook privacy: personal experience

\*21. To what degree do you care about what is published about yourself on a scale from 1 - 5, where 1 is "Don't care at all, everything can be public" and 5 is "I untag and hide everything that is published of me" (pictures, comments etc.)? Please elaborate in the text box below.

 1 2 3 4 5

Please elaborate:

\*22. To what degree are you selective about what you post about others on a scale from 1 - 5, where 1 is "I am not selective at all, I post everything" and 5 is "I never post anything about anyone" (pictures, comments etc.)? Please elaborate in the text box below

 1 2 3 4 5

Please elaborate:

\*23. Is it important to you that the content of your profile is only visible to your facebook friends? Please explain.



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## Interdependent Privacy on Facebook

### Facebook privacy: apps

24. Do you have an idea about what interdependent privacy can mean with regard to Facebook? If so, please try to describe it below. Please do NOT use Google or any other search engine to find the answer. If you don't know the answer, just leave the field blank.



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## Interdependent Privacy on Facebook

### Facebook privacy: apps

For Q25: check under the tab "Apps > Apps you use".

\*25. Under the tab "Apps > Apps you use" in your Facebook settings, you can see the list of apps you use. How many apps do you use?

- None       1-5       6-10       11-20       21-30       More than 30

\*26. Are you aware of the fact that ALL apps you install on Facebook have access to your basic information, including the list of your friends?

- Yes       No

\*27. Did you know that A SIGNIFICANT PORTION of Facebook apps you install can post information on your behalf to your and your friends' timeline? (E.g., Spotify posts songs you have listened to.)

- Yes       No



Prev

Next

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## Interdependent Privacy on Facebook

### Facebook security: settings

For Q33-Q34: check under the tab "Security". (Settings > Security)

**\*33. Are you using secure browsing (<https://>) when using Facebook?**

Yes

No

**\*34. Are you using login notification (receiving an email or text message when you log on with a new browser or device)?**

Yes

No

 89%  
[Prev](#) [Next](#)

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## Interdependent Privacy on Facebook

### Demographics

**\*35. What is your gender?**

Male

Female

**\*36. What is your age?**

**\*37. Which country are you from?**

**\*38. What is your current family situation?**

**\*39. What is your highest qualification/degree?**

 95%  
[Prev](#) [Next](#)

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## Interdependent Privacy on Facebook

### Demographics

\*40. What is your employment status?

\*41. What is the total income of your household per year?

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Prev

Done

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# Appendix B

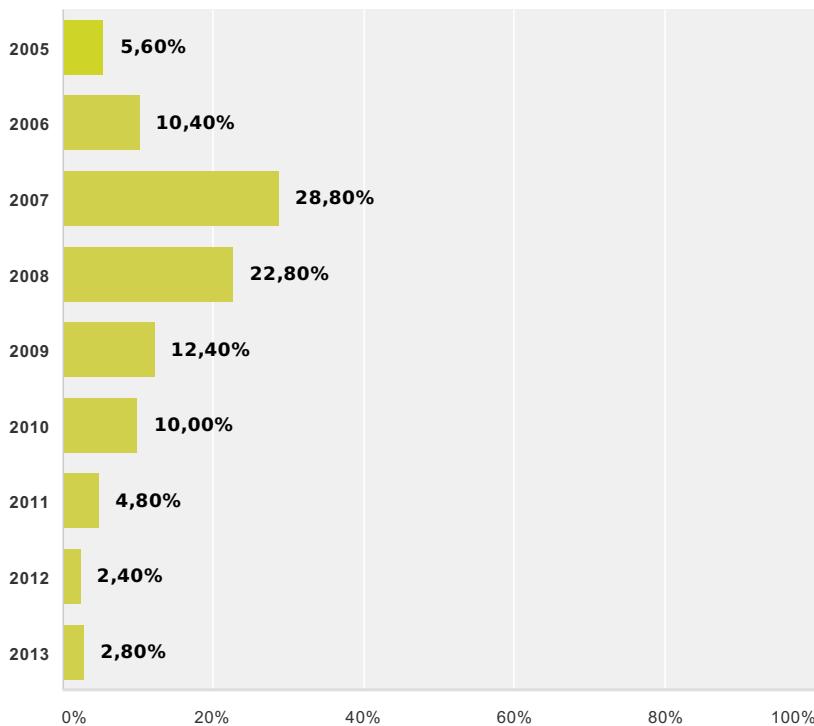
## Survey results

This appendix contains the question summaries of all the responses on the survey.

## Interdependent Privacy on Facebook

### Q1 Which year did you sign up for Facebook?

Besvart: 250 Hoppet över: 0

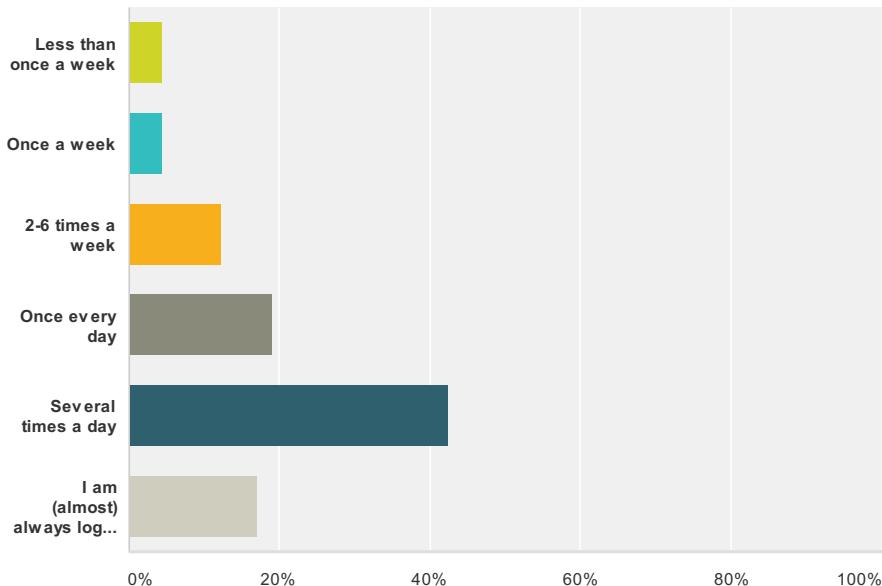


Svarvalg	Svar	
2005	5,60%	14
2006	10,40%	26
2007	28,80%	72
2008	22,80%	57
2009	12,40%	31
2010	10%	25
2011	4,80%	12
2012	2,40%	6
2013	2,80%	7
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

### **Q2 During the last month, how often did you check your Facebook page?**

Besvart: 250 Hoppet över: 0



Svarvalg	Svar	
Less than once a week	4,40%	11
Once a week	4,40%	11
2-6 times a week	12,40%	31
Once every day	19,20%	48
Several times a day	42,40%	106
I am (almost) always logged on	17,20%	43
<b>Totalt</b>		<b>250</b>

### Q3 How many friends do you have on Facebook?

Answered: 250 Skipped: 0

431 11/7/2013 6:21 PM	531 11/2/2013 4:12 PM	132 10/29/2013 5:10 PM
300 11/7/2013 3:50 PM	856 11/1/2013 1:12 PM	60 10/29/2013 3:46 PM
1200 11/7/2013 3:46 PM	42 11/1/2013 8:37 AM	50 10/29/2013 3:10 PM
204 11/7/2013 3:38 PM	73 10/31/2013 11:59 PM	307 10/29/2013 3:02 PM
650 11/7/2013 3:30 PM	110 10/31/2013 10:51 PM	216 10/29/2013 2:50 PM
500 11/6/2013 12:25 PM	112 10/31/2013 2:37 PM	1120 10/29/2013 2:38 PM
2755 11/6/2013 11:15 AM	67 10/31/2013 8:59 AM	50 10/29/2013 2:37 PM
787 11/6/2013 3:27 AM	167 10/31/2013 4:43 AM	550 10/29/2013 2:34 PM
259 11/5/2013 9:00 PM	270 10/30/2013 10:26 PM	112 10/29/2013 2:26 PM
238 11/5/2013 12:28 PM	1640 10/30/2013 10:04 PM	144 10/29/2013 2:15 PM
300 11/5/2013 5:30 AM	294 10/30/2013 6:21 PM	0 10/29/2013 1:58 PM
1200 11/4/2013 10:49 PM	12 10/30/2013 5:32 PM	42 10/29/2013 1:32 PM
612 11/4/2013 9:57 PM	555 10/30/2013 4:58 PM	168 10/29/2013 1:01 PM
88 11/4/2013 8:49 PM	186 10/30/2013 8:52 AM	80 10/29/2013 6:11 AM
532 11/3/2013 9:20 PM	600 10/30/2013 7:35 AM	246 10/29/2013 1:07 AM
88 11/3/2013 9:07 PM	120 10/30/2013 3:53 AM	145 10/29/2013 12:30 AM
180 11/3/2013 6:54 PM	180 10/30/2013 2:59 AM	579 10/28/2013 8:52 PM
238 11/3/2013 6:23 PM	304 10/30/2013 2:42 AM	40 10/28/2013 6:58 PM
80 11/2/2013 8:34 PM	1100 10/29/2013 6:19 PM	95 10/28/2013 4:27 PM
23 11/2/2013 7:55 PM	45 10/29/2013 5:10 PM	30 10/28/2013 4:14 PM

177	402	270
10/28/2013 2:05 PM	10/25/2013 1:57 PM	10/24/2013 4:29 PM
836	300	503
10/27/2013 10:43 PM	10/25/2013 1:57 PM	10/24/2013 4:23 PM
1000	400	267
10/27/2013 12:02 PM	10/25/2013 1:47 PM	10/24/2013 4:03 PM
250	250	400
10/27/2013 7:47 AM	10/25/2013 1:45 PM	10/24/2013 4:00 PM
218	831	435
10/27/2013 6:12 AM	10/25/2013 1:40 PM	10/24/2013 3:12 PM
251	414	655
10/27/2013 2:29 AM	10/25/2013 1:16 PM	10/24/2013 3:02 PM
335	1300	799
10/27/2013 2:15 AM	10/25/2013 1:10 PM	10/24/2013 2:44 PM
112	517	1153
10/27/2013 2:12 AM	10/25/2013 1:08 PM	10/24/2013 2:40 PM
595	483	637
10/27/2013 2:56 AM	10/25/2013 12:52 PM	10/24/2013 2:17 PM
71	718	342
10/27/2013 2:45 AM	10/25/2013 12:08 PM	10/24/2013 2:14 PM
240	215	846
10/27/2013 2:43 AM	10/25/2013 10:20 AM	10/24/2013 1:52 PM
97	188	400
10/27/2013 2:15 AM	10/25/2013 4:52 AM	10/24/2013 1:41 PM
217	362	650
10/26/2013 10:50 PM	10/25/2013 4:42 AM	10/24/2013 1:31 PM
498	234	862
10/26/2013 2:26 PM	10/25/2013 4:17 AM	10/24/2013 1:23 PM
246	699	532
10/26/2013 4:35 AM	10/25/2013 4:07 AM	10/24/2013 1:08 PM
203	180	779
10/26/2013 1:13 AM	10/25/2013 12:41 AM	10/24/2013 1:06 PM
400	1039	455
10/25/2013 3:06 PM	10/24/2013 11:49 PM	10/24/2013 1:00 PM
450	115	412
10/25/2013 2:43 PM	10/24/2013 10:59 PM	10/24/2013 12:52 PM
800	480	340
10/25/2013 2:26 PM	10/24/2013 9:30 PM	10/24/2013 12:36 PM
420	756	336
10/25/2013 2:04 PM	10/24/2013 4:50 PM	10/24/2013 12:30 PM
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10/25/2013 2:04 PM	10/24/2013 4:39 PM	10/24/2013 11:07 AM

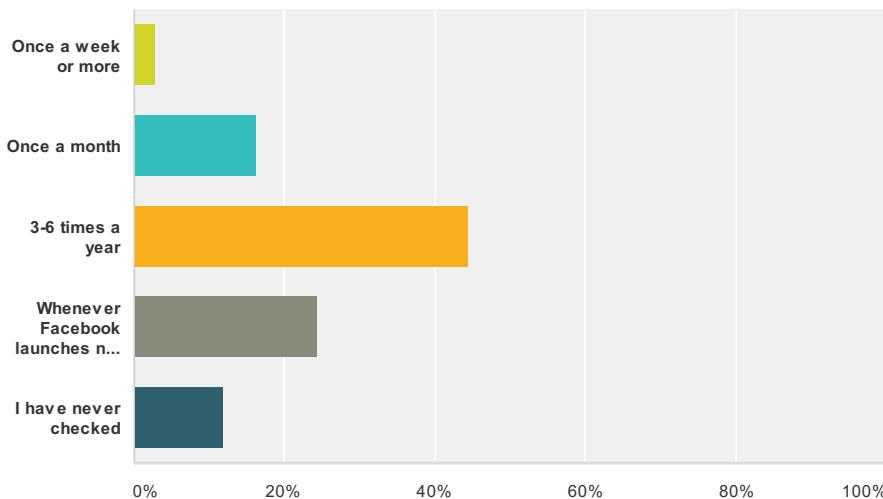
397 10/23/2013 8:02 PM	619 10/22/2013 12:00 PM	96 10/20/2013 2:43 PM
60 10/23/2013 7:41 PM	99 10/22/2013 11:53 AM	368 10/20/2013 1:13 AM
360 10/23/2013 1:10 PM	595 10/22/2013 11:46 AM	600 10/19/2013 11:54 PM
300 10/23/2013 12:10 PM	1199 10/22/2013 11:28 AM	450 10/19/2013 9:55 PM
36 10/23/2013 11:36 AM	220 10/22/2013 11:25 AM	379 10/19/2013 7:59 PM
202 10/23/2013 1:53 AM	239 10/22/2013 11:24 AM	100 10/19/2013 7:36 PM
365 10/22/2013 8:20 PM	619 10/22/2013 11:21 AM	82 10/19/2013 1:17 PM
130 10/22/2013 8:04 PM	45 10/21/2013 9:59 PM	60 10/18/2013 11:41 PM
184 10/22/2013 7:48 PM	38 10/21/2013 8:49 PM	52 10/18/2013 11:05 PM
250 10/22/2013 7:43 PM	880 10/21/2013 8:40 PM	500 10/18/2013 9:20 PM
372 10/22/2013 5:51 PM	112 10/21/2013 8:16 PM	438 10/18/2013 6:53 PM
400 10/22/2013 5:03 PM	52 10/21/2013 8:04 PM	156 10/18/2013 4:23 PM
87 10/22/2013 5:02 PM	240 10/21/2013 5:15 PM	72 10/18/2013 3:26 PM
797 10/22/2013 4:27 PM	261 10/21/2013 3:22 PM	121 10/18/2013 7:01 AM
407 10/22/2013 2:27 PM	365 10/21/2013 3:21 PM	300 10/18/2013 2:46 AM
143 10/22/2013 12:36 PM	126 10/21/2013 2:24 PM	335 10/18/2013 2:38 AM
466 10/22/2013 12:29 PM	25 10/21/2013 11:43 AM	298 10/18/2013 12:54 AM
434 10/22/2013 12:28 PM	400 10/21/2013 8:24 AM	38 10/17/2013 7:50 PM
692 10/22/2013 12:24 PM	210 10/21/2013 5:39 AM	200 10/17/2013 6:23 PM
250 10/22/2013 12:23 PM	700 10/21/2013 1:56 AM	160 10/17/2013 5:42 PM
386 10/22/2013 12:19 PM	316 10/20/2013 11:11 PM	1498 10/17/2013 3:40 PM

1000	158	547
10/17/2013 12:49 PM	10/16/2013 7:36 PM	10/16/2013 3:57 PM
241	131	92
10/17/2013 7:03 AM	10/16/2013 7:34 PM	10/16/2013 3:57 PM
429	566	70
10/17/2013 5:16 AM	10/16/2013 7:25 PM	10/16/2013 3:53 PM
23	200	35
10/17/2013 5:10 AM	10/16/2013 7:25 PM	10/16/2013 3:40 PM
179	691	403
10/17/2013 5:05 AM	10/16/2013 7:25 PM	10/16/2013 3:32 PM
1439	140	5
10/17/2013 2:55 AM	10/16/2013 7:23 PM	10/16/2013 3:28 PM
251	40	201
10/17/2013 2:10 AM	10/16/2013 7:20 PM	10/16/2013 3:27 PM
168	105	54
10/17/2013 1:52 AM	10/16/2013 7:12 PM	10/16/2013 3:14 PM
267	135	33
10/16/2013 10:37 PM	10/16/2013 6:49 PM	10/16/2013 3:08 PM
150	36	153
10/16/2013 9:34 PM	10/16/2013 6:00 PM	10/16/2013 2:58 PM
28	450	77
10/16/2013 9:32 PM	10/16/2013 5:38 PM	10/16/2013 2:51 PM
260	800	75
10/16/2013 8:48 PM	10/16/2013 5:25 PM	10/16/2013 2:48 PM
200	138	469
10/16/2013 8:21 PM	10/16/2013 5:11 PM	10/16/2013 2:45 PM
159	90	627
10/16/2013 8:16 PM	10/16/2013 5:01 PM	10/16/2013 2:40 PM
153	161	96
10/16/2013 8:13 PM	10/16/2013 4:31 PM	10/16/2013 2:38 PM
310	83	407
10/16/2013 8:00 PM	10/16/2013 4:27 PM	10/16/2013 2:17 PM
320	24	309
10/16/2013 7:56 PM	10/16/2013 4:22 PM	10/16/2013 2:11 PM
122	4	100
10/16/2013 7:55 PM	10/16/2013 4:17 PM	10/16/2013 2:08 PM
51	784	608
10/16/2013 7:48 PM	10/16/2013 4:17 PM	10/16/2013 2:01 PM
228	6	135
10/16/2013 7:46 PM	10/16/2013 4:09 PM	10/16/2013 1:58 PM
350	176	0
10/16/2013 7:37 PM	10/16/2013 4:06 PM	10/16/2013 1:57 PM

## Interdependent Privacy on Facebook

### **Q4 During the past year, how often did you check your Facebook privacy settings?**

Besvart: 250 Hoppet över: 0

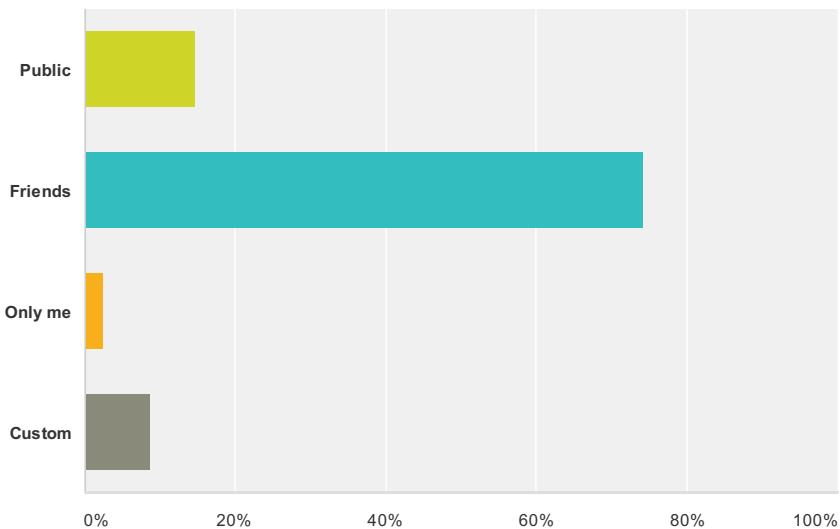


Svarvalg	Svar	
Once a week or more	2,80%	7
Once a month	16,40%	41
3-6 times a year	44,40%	111
Whenever Facebook launches new features	24,40%	61
I have never checked	12%	30
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

### Q5 What kind of restrictions do you have under “Who can see my stuff”? Who can see your future posts?

Besvart: 250 Hoppet över: 0

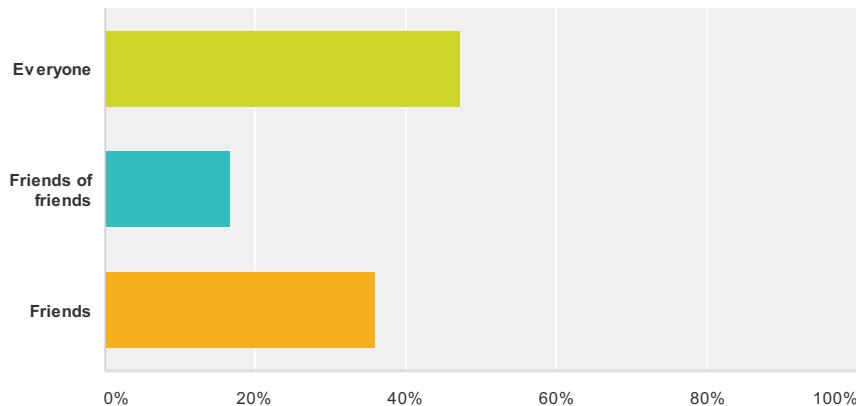


Svarvalg	Svar	
Public	14,80%	37
Friends	74%	185
Only me	2,40%	6
Custom	8,80%	22
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

### Q6 What kind of restrictions do you have under "Who can look me up"? Who can look you up using the email address or phone number you provided?

Besvart: 250 Hoppet över: 0

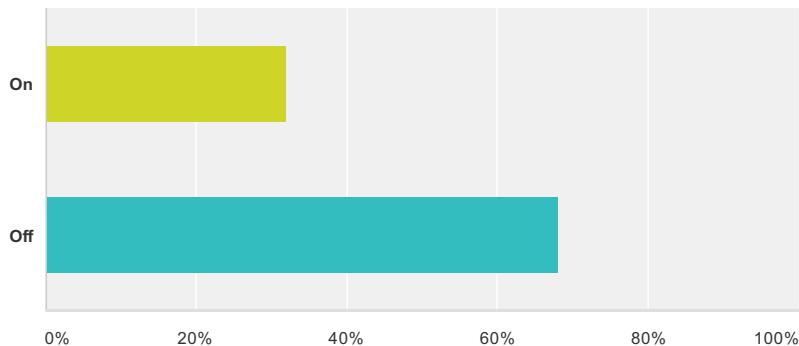


Svarvalg	Svar	
Everyone	47,20%	118
Friends of friends	16,80%	42
Friends	36%	90
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

**Q7 What kind of restrictions do you have under "Who can look me up"? Do you want other search engines to link to your timeline?**

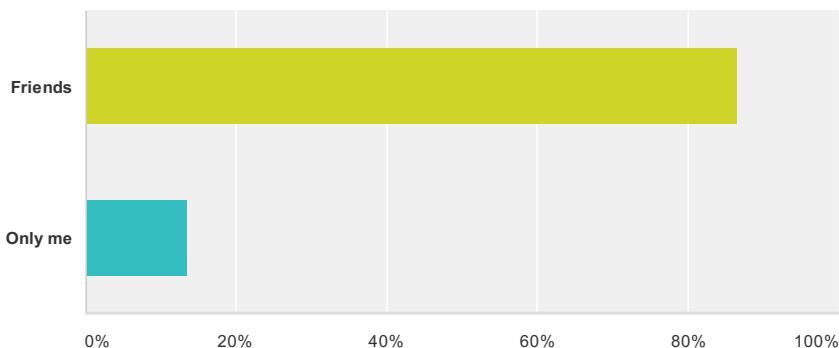
Besvart: 250 Hoppet över: 0



## Interdependent Privacy on Facebook

### Q8 What kind of restrictions do you have under "Who can add things to my timeline"? Who can post on your timeline?

Besv art: 250 Hoppet over: 0

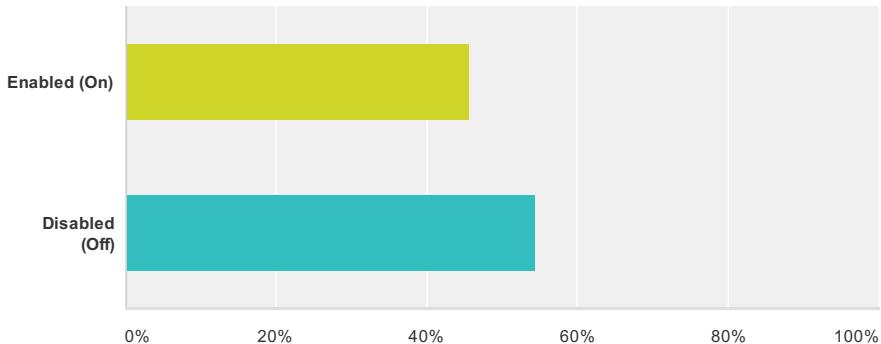


Svarvalg	Svar	
Friends	86,40%	216
Only me	13,60%	34
Totalt		250

## Interdependent Privacy on Facebook

**Q9 What kind of restrictions do you have under "Who can add things to my timeline"? Review posts friends tag you in before they appear on your timeline.**

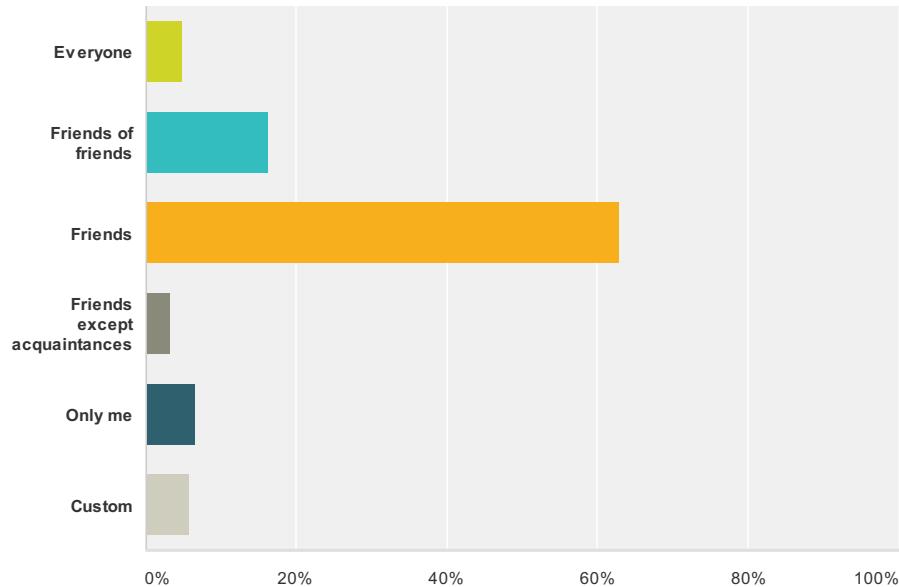
Besvarat: 250 Hoppet över: 0



## Interdependent Privacy on Facebook

**Q10 What kind of restrictions do you have under "Who can see things on my timeline"? Who can see posts you've been tagged in on your timeline?**

Besvart: 250 Hoppet över: 0

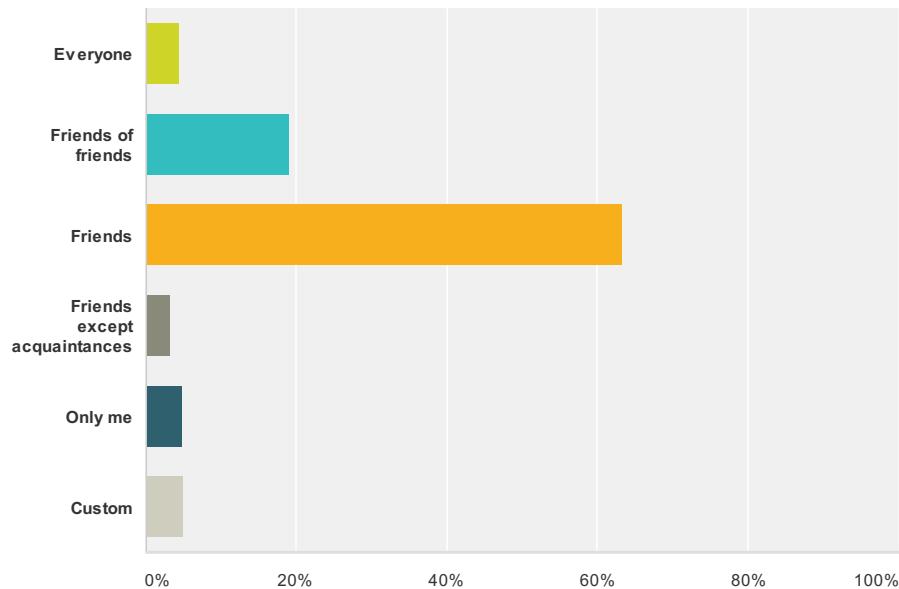


Svarvalg	Svar	
Everyone	4,80%	12
Friends of friends	16,40%	41
Friends	62,80%	157
Friends except acquaintances	3,20%	8
Only me	6,80%	17
Custom	6%	15
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

### Q11 What kind of restrictions do you have under "Who can see things on my timeline"? Who can see what others post on your timeline?

Besvarat: 250 Hoppet över: 0

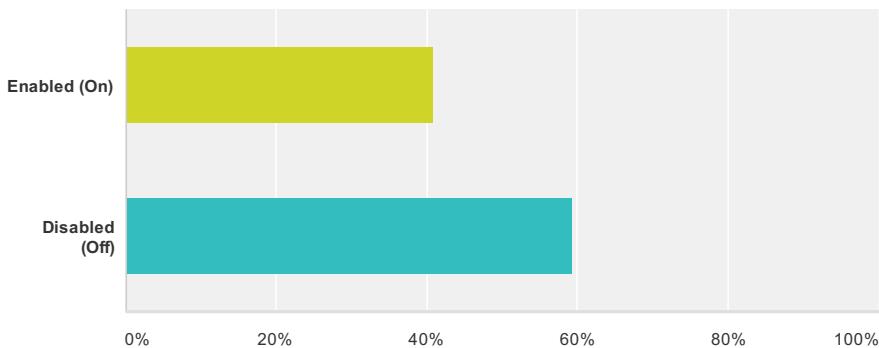


Svarvalg	Svar	
Everyone	4,40%	11
Friends of friends	19,20%	48
Friends	63,20%	158
Friends except acquaintances	3,20%	8
Only me	4,80%	12
Custom	5,20%	13
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

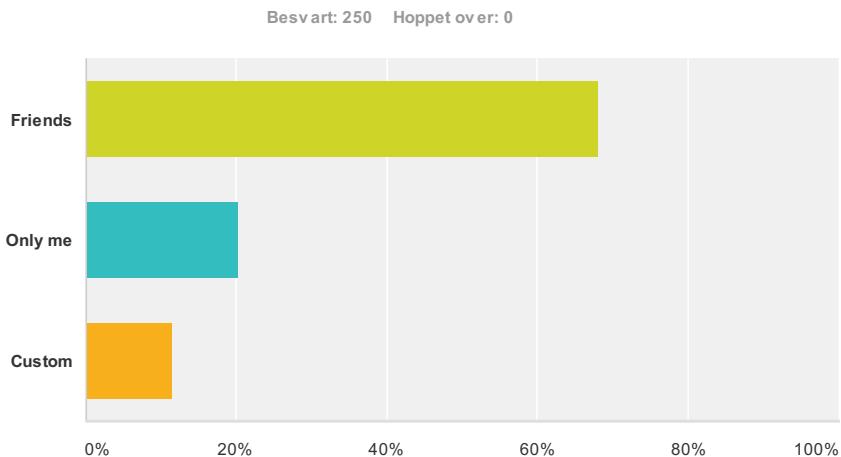
**Q12 What kind of restrictions do you have under "How can I manage tags people add and tagging suggestions"? Review tags people add to your own posts before the tags appear on Facebook.**

Besvarat: 250 Hoppet över: 0



## Interdependent Privacy on Facebook

**Q13 What kind of restrictions do you have under "How can I manage tags people add and tagging suggestions"? When you're tagged in a post, who do you want to add to the audience if they aren't already in it?**

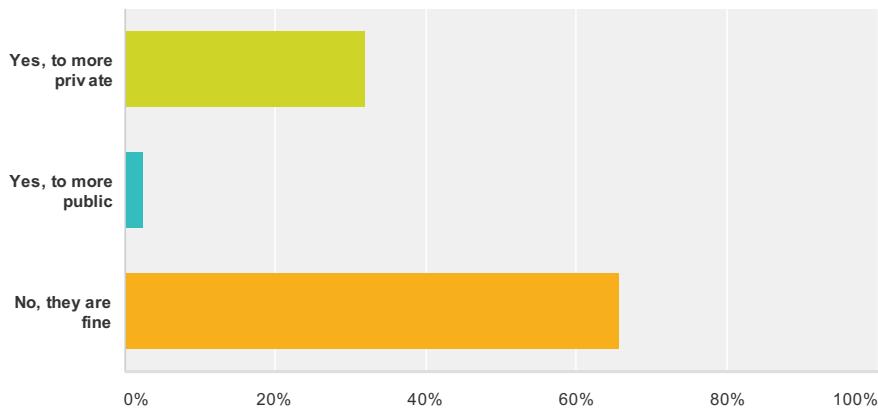


Svarvalg	Svar	Nr
Friends	68%	170
Only me	20,40%	51
Custom	11,60%	29
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

### Q14 Now, that you have gone through your privacy-related settings, are you considered changing them?

Besv art: 250 Hoppet over: 0

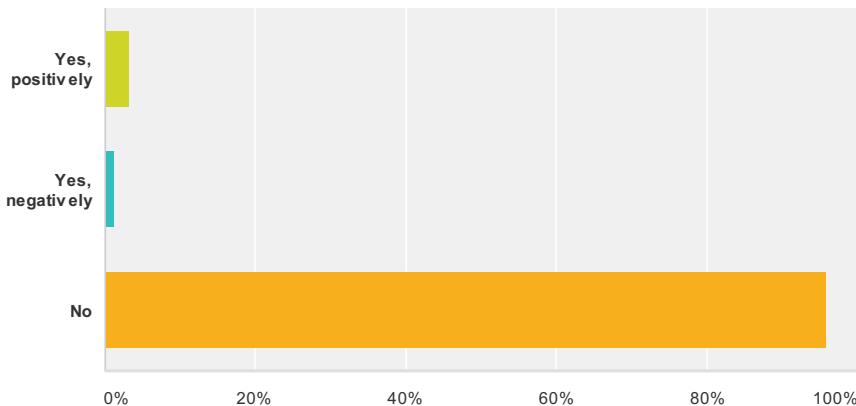


Svarvalg	Svar	Antal
Yes, to more private	32%	80
Yes, to more public	2,40%	6
No, they are fine	65,60%	164
Totalt		250

## Interdependent Privacy on Facebook

**Q15 Have you ever experienced that your use of Facebook has affected your professional life (future job prospects etc.)?**

Besvart: 250 Hoppet över: 0



**Q16 If you answered Yes on the previous question, please describe the situation that occurred.**

Answered: 10 Skipped: 240

---

I'm a dancer/dj load of my contact are on FB

11/6/2013 11:21 AM

---

advertisement, promotions that allow me to reach to more customers

11/4/2013 9:59 PM

---

My boss found out I smoked weed, and he made me stop.

10/30/2013 8:53 AM

---

because i used to spent more time in fb so i sometime am busy

10/29/2013 6:21 PM

---

Being noticed by peers when using FB groups leading to requests.

10/25/2013 2:08 PM

---

private

10/22/2013 8:26 PM

---

Was able to turn a script I wrote into a short film.

10/21/2013 8:43 PM

---

hampering work, studies etc

10/20/2013 11:16 PM

---

During a job search, I got links and suggestions from my friends to visit companies and their Facebook pages and groups online.

10/19/2013 1:23 PM

---

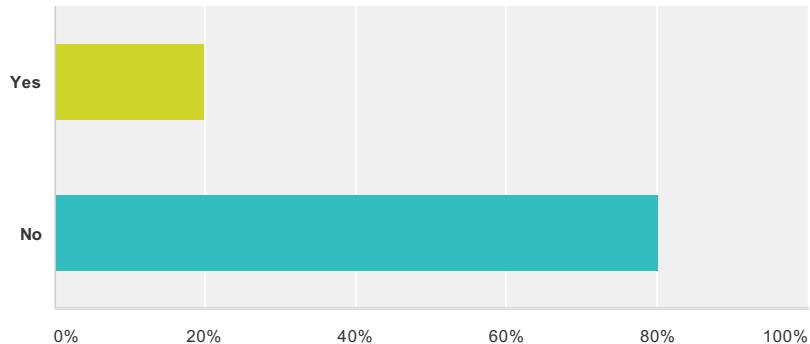
I can keep in touch with my childhood and school friends.

10/17/2013 5:18 AM

## Interdependent Privacy on Facebook

**Q17 Have your use of Facebook lead to any uncomfortable situations (unpleasant messages, inappropriate pictures or comments etc.)?**

Besvart: 250 Hoppet över: 0



Svarvalg	Svar	
Ja	20%	50
Nej	80%	200
Totalt		250

**Q18 If you answered Yes on the previous question, please describe the situation that occurred.**

Answered: 48 Skipped: 202

It was before everybody had facebook, in 2006. There was a group for my sports team in school, and I had quoted something inappropriate that someone had said. Months later, someone had told this person about it.  
11/7/2013 3:54 PM

---

Its just comment abuse.i get that some of the time  
11/6/2013 3:30 AM

---

have had many encounters with stalkers  
11/4/2013 10:51 PM

---

In college some pictures with holding a beer my family did not approve of it.  
11/4/2013 10:00 PM

---

Just certain things that I would not want my parents to see, now that I see that I can review things before they post I feel better.  
10/31/2013 4:45 AM

---

I've gotten into some hot water with women (kissing and all that when I wasn't suppose to)  
10/30/2013 8:54 AM

---

I had a friend I parted ways with harass me on facebook by threatening messages, posts to photos about me, etc. I also had sexual harassment over facebook message by an ex boyfriend, inappropriate comments and propositions I was not interested in.  
10/30/2013 2:46 AM

---

some time friends tag me un wanted picture  
10/29/2013 6:23 PM

---

Before I changed my settings, someone posted a picture of me that I did not want to share with everyone else.  
10/29/2013 5:13 PM

---

sicko men who are looking for sex  
10/29/2013 2:40 PM

---

Inappropriate language used from friends, disagreements carried out on facebook, too many things that people should keep private are made public.  
10/29/2013 2:37 PM

---

mom posted something on there about another kid in a picture with my daughter.  
10/29/2013 2:18 PM

---

respectfully wish to keep private  
10/29/2013 1:11 AM

---

People tagging me in posts and posting things to my wall that I do not approve of. Alos, being tagged and having posts made to my wall that are spam posts with unssafe/sketchy links  
10/29/2013 12:35 AM

---

people tagging me in pics  
10/27/2013 6:15 AM

---

just dumb things I posted while drunk/drinking  
10/27/2013 2:34 AM

---

Pictures that were not photogenic being tagged  
10/27/2013 2:17 AM

---

I've had men show me their penises in private messages. I didn't want to see that.

10/27/2013 2:00 AM

---

My made some negative comments on one of my posts that she thought was directed at her personally.

10/27/2013 2:48 AM

---

Friends posting inappropriate pictures, and/or posting inappropriate comments on mine or other peoples walls

10/25/2013 2:10 PM

---

offensive messages

10/25/2013 12:15 PM

---

An ex girlfriend was using Facebook to get information about me and my friends.

10/25/2013 4:18 AM

---

I shared (public) a photo from a friends timeline which he had posted to a limited set of friends, he got mad

10/24/2013 4:58 PM

---

messages who I didnt need

10/24/2013 4:25 PM

---

Someone commented something on a photo I was tagged in that I don't want everyone to know about me

10/24/2013 4:10 PM

---

Someone published a picture of me when I was drunk

10/24/2013 3:11 PM

---

I have many younger friends on facebook (underage), and I would like to be a good role model. So sometimes there have been pictures of me consuming alcohol, and I don't want my younger friends to see that. I now have customized my settings, so they only see my personal posts which doesn't include alcohol/smoking etc.

10/24/2013 2:00 PM

---

I girl posted a naked photo of me

10/24/2013 1:08 PM

---

My mother put up innappropriate comments about my ex-roommates on a friends' status that I was tagged in.

10/22/2013 7:58 PM

---

Inappropriate messages from unknown people, and friend requests from total randoms

10/22/2013 11:52 AM

---

Vulgar comments from immature teens

10/21/2013 8:07 PM

---

Rude comments on a picture one time. Another time, a relatives contacted me and was angry about family drama.

10/21/2013 5:18 PM

---

People who I have told to never contact me again trying to contact me and my family through facebook.

10/21/2013 5:41 AM

---

many admins of some pages post some dirty pictures

10/20/2013 11:18 PM

---

stalked by an ex-bf

10/19/2013 9:58 PM

---

Just pictures of me not looking my best being posted by friends who then tag me and suddenly everyone - friends of friends, etc. can see the pics. It wasn't disasterous or inappropriate, but those weren't pictures I wanted old classmates from high school to look at (unless we are friended on FB).

10/18/2013 11:08 PM

---

I get messages from time to time for someone famous that did some pretty bad stuff. I've also gotten some pretty gross picture unrelated to that.

10/18/2013 3:28 PM

---

Uncomfortable pictures

10/18/2013 2:49 AM

---

Sometimes a few friends use very distasteful language, or post gross pictures.

10/17/2013 7:52 PM

---

Estranged mother in law sends inappropriate messages.

10/17/2013 6:25 PM

---

One time I got "hacked" and a bot was posting inappropriate pictures on my wall

10/16/2013 9:38 PM

---

Facebook drama is called Facebook drama for a reason - friends freak out!

10/16/2013 7:51 PM

---

drunk people posting awkward things

10/16/2013 7:50 PM

---

Someone was insulting and harassing me until I blocked them.

10/16/2013 3:34 PM

---

A family member was uncomfortable and unhappy with a person that I added as a friend and exchanged messages and photos with - this was a person from their past

10/16/2013 3:18 PM

---

inappropriate flirting, texts, comments, photos, sexual overtures

10/16/2013 2:43 PM

---

In local groups I have gotten into heated debates and gotten nasty messages from members.

10/16/2013 2:14 PM

---

In a previous Facebook account, someone tagged me in their photos, and he turned out to be a creap. I did not want to be tagged. I now have an account under a false name that I only use to play Scrabble!

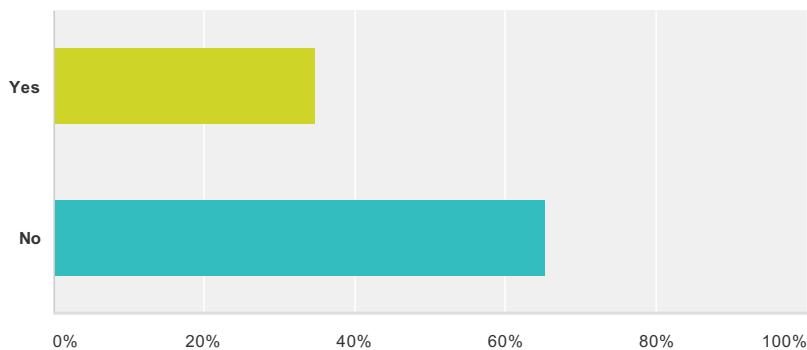
10/16/2013 2:04 PM

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## Interdependent Privacy on Facebook

**Q19 Do you use “timeline review”?**  
**(Review posts that others tagged of you before they appear on your timeline.)**

Besvart: 250 Hoppet över: 0

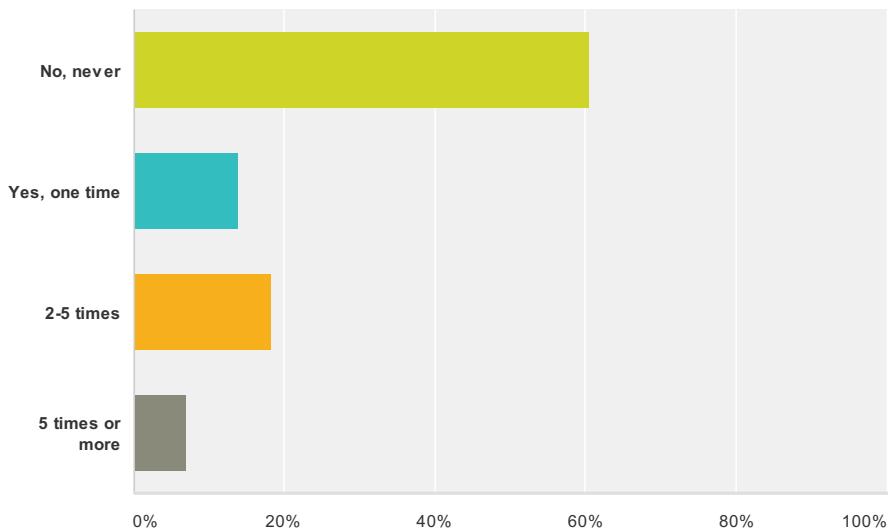


Svarvalg	Svar	
Yes	34,80%	87
No	65,20%	163
Totalt		250

## Interdependent Privacy on Facebook

### Q20 Have you blocked any persons because you felt uncomfortable/harassed?

Besvarat: 250 Hoppet över: 0

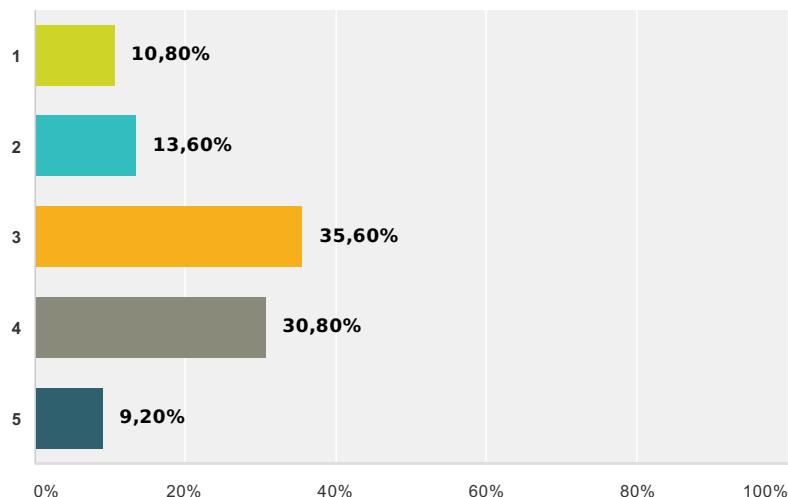


Svarvalg	Svar	
No, never	60,40%	151
Yes, one time	14,00%	35
2-5 times	18,40%	46
5 times or more	7,20%	18
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

**Q21 To what degree do you care about what is published about yourself on a scale from 1 - 5, where 1 is "Don't care at all, everything can be public" and 5 is "I untag and hide everything that is published of me" (pictures, comments etc.)? Please elaborate in the text box below.**

Besvart: 250 Hoppet över: 0



I don't mind friends see pictures of me, or tag me in post. But I don't want people I don't know to see my post.  
11/7/2013 6:31 PM

---

I untag ugly pictures, i ask the publisher to remove inappropriate pictures.  
11/7/2013 3:59 PM

---

Friends are welcome to see everything posted with my name tagged  
11/7/2013 3:36 PM

---

i don't care about my comments .but i do care about my personal pictures  
11/6/2013 3:33 AM

---

I do not want some exes to see anything about me.  
11/5/2013 9:03 PM

---

It matters to me when things about me are published, people would have an impression by seeing the posts of me. So, I care about it.  
11/5/2013 12:39 PM

---

I really don't care that much because I can trust that nothing will be posted against my overall interest.  
11/5/2013 5:37 AM

---

I am not a huge fan of everything i post being opened to anyone  
11/4/2013 10:52 PM

---

I only want good things about me to be highlighted and shared  
11/4/2013 10:01 PM

---

Because I'm a boring person and nothing would really bother me.  
11/4/2013 8:54 PM

---

I don't really do anything controversial, so I haven't had to worry much about things being posted about me that are that bad, unless they are lies.  
11/3/2013 9:23 PM

---

I have things generally visible to friends - and I'm ok with that.  
11/3/2013 9:13 PM

---

I only want my friends to see my post, tags, photos and likes.  
11/3/2013 6:58 PM

---

It does not bother me. Only my friends can see.  
11/3/2013 6:28 PM

---

I don't mind if friends can see posts about me.  
11/2/2013 8:40 PM

---

I have no worries about who sees what I post.  
11/2/2013 8:01 PM

---

I am very particular as to what gets published about me.  
11/2/2013 4:15 PM

---

I untag and hide pictures or posts if they are too personal.  
11/1/2013 8:48 AM

---

I only want friends to see my posts and be able to post to my timeline  
11/1/2013 12:04 AM

---

Dont trust the internet  
10/31/2013 10:53 PM

---

I am pretty private but I am not concerned what my friends will post, only the public.  
10/31/2013 2:42 PM

---

Never had to delete anything since I've been using Facebook, however if someone were to post something inappropriate then I would take action.

10/31/2013 9:03 AM

---

I don't really mind what is published about me. Facebook does not mean much to me.

10/31/2013 4:47 AM

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I only care it it's a photo I don't like of myself or if it's not appropriate for some reason.

10/30/2013 10:30 PM

---

For the most part I do not care as I do not do anything incriminating so its not an issue.

10/30/2013 6:27 PM

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I care about what is published about me. I am a private person.

10/30/2013 5:39 PM

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I don't like strangers seeing certain things.

10/30/2013 5:00 PM

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I don't give a shit most of the time, I just hate getting smoked.

10/30/2013 8:55 AM

---

I really don't care if someone wants to look at my profile

10/30/2013 7:39 AM

---

i dont want people to see my stuff

10/30/2013 3:55 AM

---

I keep out of others business for that i usually dont ave a problem

10/30/2013 3:02 AM

---

I have untagged any photos of myself with people I have personal problems with, or have blocked on facebook. I look at every photo and post I am tagged in and determine if I want to keep the tag. I am always looking out for things that other people are posting that might reflect badly on me just because they decided to tag me in it.

10/30/2013 2:49 AM

---

I like to review materials before they're posted, but most of the time it's okay, especially since only friends can see things.

10/29/2013 5:14 PM

---

I don't care at all/

10/29/2013 5:13 PM

---

I'm a pretty simple person and there is nothing for anyone to say bad about me so I am not worried about that

10/29/2013 3:59 PM

---

I don't share all my information so there is nothing to publish about me.

10/29/2013 3:14 PM

---

I really don't post anything embarrassing or extremely private. When I do, I make sure to only allow certain people to see it. But that's very rare.

10/29/2013 3:06 PM

---

i untag a lot but leave some.

10/29/2013 2:53 PM

---

I work in an industry where I need to be known online, so having stuff public about myself is not a big deal. I am comfortable with it

10/29/2013 2:41 PM

---

I dont mind as long as its not crude

10/29/2013 2:41 PM

---

I want to have control over what is published. I should be the one to decide what is made public about my life.  
10/29/2013 2:39 PM

---

I want to review what I have been tagged in, but in general I don't really care.  
10/29/2013 2:29 PM

---

I dont think anything of me out there is something that is bad so i do not mind everyone seeing it.  
10/29/2013 2:20 PM

---

i have nothing to hide  
10/29/2013 2:04 PM

---

I would prefer controlling what pictures of myself are shown on facebook  
10/29/2013 1:41 PM

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I don't manage it, generally I only post things I'm willing to be public, but don't monitor.  
10/29/2013 6:15 AM

---

If it is compromising or could damage my image in the future, I remove it  
10/29/2013 12:38 AM

---

I don't post a lot to Facebook and am very careful about what I do post  
10/28/2013 4:30 PM

---

I care about what I am tagged in and will monitor what tags there are to make sure nothing is going through that I deem questionable.  
10/28/2013 4:26 PM

---

I don't want a large online presence. I like to control what other people see of me online.  
10/28/2013 2:09 PM

---

I don't really care if my information is public or not  
10/27/2013 10:50 PM

---

it doesn't bother me because I have nothing to hide  
10/27/2013 7:51 AM

---

there are certain things i just want between me and my friends and not family  
10/27/2013 6:18 AM

---

I was first vote on what representation of me ends up online  
10/27/2013 2:35 AM

---

i basically don't care unless i look really bad in a photo or it's vulgar  
10/27/2013 2:19 AM

---

I like to have control as some people have bad judgement  
10/27/2013 2:15 AM

---

Unflattering pictures of myself I always want to hide and I don't allow them to be published to timeline.  
10/27/2013 2:02 AM

---

I think most people can find out anything they want if they look hard enough so I don't think it would make a difference  
10/27/2013 2:50 AM

---

I don't have much to hide so everything can be public is fine with me.  
10/27/2013 2:47 AM

---

I care to an extent. If a bad photo is posted of me, I then don't want it to show but others are usually fine. If I'm tagged at some place it depends where I am at and who I want to know.  
10/27/2013 2:23 AM

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I don't untag everything because the point of the site is to be social.

10/26/2013 10:52 PM

---

i dont post private things so i don't care who sees

10/26/2013 4:39 AM

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I am not very concerned about what is published about me.

10/26/2013 1:19 AM

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If what is published is offending, then I'd rather remove it. If not, it can just as well be public (my life isn't that crazy).

10/25/2013 2:35 PM

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I have two accounts. One public under full name with co workers and work contacts. One using a pseudonym that only people who really know me can find. The private one is used in a really restrictive manner when it comes to being identified.

10/25/2013 2:14 PM

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I usually let it flow, but prefer that it's only accessible by friends, or max friends of friends

10/25/2013 12:58 PM

---

I review all tags and hide some

10/25/2013 12:18 PM

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I don't really mind about what is published about myself

10/25/2013 10:26 AM

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Once I have asked my friend to remove a photograph of mine

10/25/2013 5:00 AM

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I do review where the picture is posted, and what is the nature of the pictures around the picture I am in. I

10/25/2013 4:50 AM

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I care about my privacy online and I don't want people knowing everything about me, but I do want to share some things with friends.

10/25/2013 4:23 AM

---

I don't really care that much, and most of what is posted is funny or good

10/25/2013 4:11 AM

---

I untag/hide photos that I'm not comfortable with being public.

10/24/2013 11:59 PM

---

I don't want horrible stuff posted about me.

10/24/2013 11:02 PM

---

Try to limit the exposure to harmless / positive things only

10/24/2013 5:00 PM

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I carefully select what should be available. That is close to nothing.

10/24/2013 4:55 PM

---

I don't want everyone to see photos that I'm tagged in.

10/24/2013 4:12 PM

---

It's a tricky dilemma, because when you untag you also lose control over what happens with the picture/post, but I've landed on rather untagging and hide on stuff I'm not necessarily that happy to be associated with.

10/24/2013 3:23 PM

---

I untag comments or pictures of me that I find inappropriate

10/24/2013 2:19 PM

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Since I have so many friends that are more like acquaintances, I only like it to be under control.

10/24/2013 2:03 PM

---

I feel that you need to be aware that whatever you do in public can be posted online. Your "online life" should reflect your real life, and employers should realize that they are hiring real people. So whatever you do in life should be things that you can accept having on your Facebook wall.

10/24/2013 1:39 PM

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It depends on what is published about me. If it is a good thing, then it is fine and vice versa

10/24/2013 1:08 PM

---

I usually don't hide things, but like to be aware of what is tagged/commented/etc

10/24/2013 12:34 PM

---

I don't like ugly pictures or party pictures being posted

10/23/2013 8:11 PM

---

I try to keep private, but I understand not everything can remain private.

10/23/2013 7:45 PM

---

I am always concerned of what is being posted of me in facebook.

10/23/2013 12:15 PM

---

I generally do not care about what is published about me, but there are somethings that I delete or untag.

10/23/2013 1:58 AM

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Most is OK, but I'd like to review it.

10/22/2013 8:33 PM

---

I like to remain somewhat private to people outside my friends.

10/22/2013 8:08 PM

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I figure if I put it out there, I should be comfortable with everyone seeing it.

10/22/2013 7:59 PM

---

I want to screen my page so only I can decide what is projected of me. I hide only what I want to get rid of.

10/22/2013 4:32 PM

---

Vil ikke at alt skal legges ut, men har ikke opplevd noe negativt så langt - prøver å begrense den offentlige profilen så mye som mulig

10/22/2013 3:03 PM

---

Most of what is posted of me on Facebook I feel can be shared with my friends, but not necessarily the public. Somethings are also just available for me and my girlfriend.

10/22/2013 12:38 PM

---

care a lot

10/22/2013 12:35 PM

---

Something should be kept more private than other tings. I do not have a problem sharing comments and pictures with my friends, as long as the content is appropriate. I certainly do not like to share everything about myself on facebook.

10/22/2013 12:14 PM

---

I try to check everything and delete the things I dont want shown, or linked to my name

10/22/2013 11:56 AM

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Small friends list means im not totally public, but i generally don't care. Once it is one the internett i have no control of it.

10/22/2013 11:34 AM

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I'm very cautious about my image on Facebook

10/21/2013 10:08 PM

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I'm okay with appropriate things shared with my friends

10/21/2013 8:54 PM

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I obviously don't want bad things published about me.

10/21/2013 8:44 PM

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I don't want the public seeing photos of me, but I don't mind if friends of friends see them because my friends may be referencing me to somebody.

10/21/2013 8:23 PM

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I like to keep things between me and my close friends

10/21/2013 8:09 PM

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I like some privacy but I'm also okay sharing with my friends and family, so I go with a "middle of the road" privacy approach.

10/21/2013 5:19 PM

---

I would like to review something in case its something that negatively affects me.

10/21/2013 3:26 PM

---

I dont care because people are going to write what they are going to write

10/21/2013 3:25 PM

---

I don't think about it much

10/21/2013 2:34 PM

---

I untag myself sometime from the stuff which I dont like personally.

10/21/2013 8:30 AM

---

I only awnt certain things to be completely public

10/21/2013 5:42 AM

---

I just want my friends to know things about me....no one else

10/21/2013 1:59 AM

---

it depends whats publised on the post

10/20/2013 11:22 PM

---

I don't have anything to hide

10/20/2013 2:49 PM

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Certain things must be filtered, but I usually don't care.

10/20/2013 1:17 AM

---

I take off certain pictures

10/19/2013 11:55 PM

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you never know what people can do with your info... once something is on the internet, it stays on the internet.

10/19/2013 10:01 PM

---

I limit some things to just friends or from some apps only me so I don't litter friends' walls with gaming messages.

10/19/2013 8:05 PM

---

I'd like review everything before published

10/19/2013 7:41 PM

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I always do monitor what is going on, in which my name is involved.

10/19/2013 1:30 PM

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Everything can be public, I want everyone to see my posts.

10/18/2013 11:47 PM

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it depends on the situation entirely. sometimes I do and sometimes i don't

10/18/2013 11:09 PM

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I don't want unflattering pictures of me tagged  
10/18/2013 6:57 PM

---

I am not much care about what is published about myself. Its doesn't affect my life because its others thought not of mine so i didn't care.  
10/18/2013 4:34 PM

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Some pictures I'll allow if I'm tagged, but most stuff of me drinking with friends I don't allow. I don't like that kind of stuff going public.  
10/18/2013 3:30 PM

---

Some things I'm okay with but very personal things about me like location and such, that I prefer kept private and I also try to avoid conflict and delete mean comments people on my wall post to each other.  
10/18/2013 7:23 AM

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I untag things I don't like  
10/18/2013 2:51 AM

---

i care because of potential employers looking at it. Other than that I do not care  
10/18/2013 2:43 AM

---

I don't care much unless it is untrue. There really isn't much posted about me, so I don't have a lot to worry about.  
10/18/2013 12:58 AM

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I am in the middle on this. I am okay with pictures, because I never posed for any questionable ones, but I still want to know which pictures are out there, and who is seeing them.  
10/17/2013 7:54 PM

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I don't like pictures of my baby to be seen by everyone.  
10/17/2013 6:28 PM

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I don't post my life on fb  
10/17/2013 5:57 PM

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I don't want anyone seeing anything truly about me or my personal information  
10/17/2013 3:42 PM

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I am sure that my friends wont cheat on me  
10/17/2013 12:56 PM

---

I make sure there is nothing that would make anyone feel left out because I was tagged at an event or in a photo.  
10/17/2013 7:06 AM

---

Its okay if my pictures are good and there is no fuss about it.  
10/17/2013 5:21 AM

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I am a control freak. I care about what is made public about me. Even though I haven't had any scares.  
10/17/2013 5:16 AM

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Fine for the most part  
10/17/2013 5:11 AM

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I am private and want to keep things private  
10/17/2013 3:00 AM

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While I'm not paranoid about social media, I am a very private person and do not want my life displayed on the internet. Most of my information is hidden and even my pictures have strict security.  
10/17/2013 2:16 AM

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I don't have anything that is too embarrassing  
10/17/2013 1:56 AM

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I haven't had any problems so far, so not too concerned  
10/16/2013 10:41 PM

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i don't currently have any problems with this, its ok if everything is public  
10/16/2013 9:44 PM

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I don't like when people tag me on bad pictures of me/ old pictures  
10/16/2013 9:39 PM

---

I have un tagged myself in a few things. I don't want my pictures public.  
10/16/2013 8:51 PM

---

I care but I havent run into anything that I needed to delete. I am careful about what I post and how people see me.  
10/16/2013 8:26 PM

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I feel too old for Facebook now and see it as a waste of time, don't want to use it so don't allow things about me on there  
10/16/2013 8:20 PM

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I really don't care  
10/16/2013 8:17 PM

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I am concerned about it  
10/16/2013 8:03 PM

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Only if it is something I don't like or want to be private.  
10/16/2013 8:02 PM

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It makes me uncomfortable wondering if and where stuff will turn up again  
10/16/2013 7:52 PM

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I definately want to review before something pops up  
10/16/2013 7:52 PM

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I want to control what others see about me and what they do with things like pictures other people post and tag me in.  
10/16/2013 7:42 PM

---

I don't not want staler weirdos to see anything  
10/16/2013 7:41 PM

---

I don't want random people on the internet seeing information about me. If I want some to know about me, I'll tell them personally.  
10/16/2013 7:38 PM

---

It depends on what kind of pictures or comments that they tag me of.  
10/16/2013 7:30 PM

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There are some things I'd rather not have published but for the most part, I'm OK with my friends writing about me and posting my photos.  
10/16/2013 7:30 PM

---

I have nothing to hide  
10/16/2013 7:29 PM

---

I like to keep myself private  
10/16/2013 7:29 PM

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I don't believe any of my friends would post any embarrassing pictures, comments about me.  
10/16/2013 7:23 PM

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i haven't known how to use privacy setting now I will  
10/16/2013 7:15 PM

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I don't mind being tagged and sometimes love it.

10/16/2013 7:04 PM

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I feel there should be a definite balance between personal and public. One should be at the same time somewhat public and personal too in some aspects.

10/16/2013 6:08 PM

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I don't want anything negative posted on my facebook.

10/16/2013 5:42 PM

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I don't care because I don't post pictures of myself on facebook.

10/16/2013 5:27 PM

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I review everything that is posted about me or of me in order to be sure it reflects on me personally the way I want it to.

10/16/2013 5:16 PM

---

I don't actively untag myself but I care very much about it and only friends see stuff like that.

10/16/2013 5:04 PM

---

i don't mind what is published about me

10/16/2013 4:34 PM

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I want to make sure information about me that should remain private, stays private.

10/16/2013 4:33 PM

---

i'm pretty cautious

10/16/2013 4:25 PM

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I only have family on my facebook and wouldn't want people to see my grandchilids pictures unless I knew who they were.

10/16/2013 4:22 PM

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I review everything and if I am happy with it and there is not much personal information, I will let it be posted, otherwise I block it.

10/16/2013 4:21 PM

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There are certain things I don't want strangers to see, and then other things don't bother me if outsiders see it

10/16/2013 4:16 PM

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I have a facebook account so others can see what I am up to. I purposly do not put anything embarrassing on it.

10/16/2013 4:14 PM

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I dont want things visible that affects my safety

10/16/2013 4:05 PM

---

I care what I do in my real life and what I post on FB so I don't have to be ashamed of anything.

10/16/2013 4:04 PM

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I don't mind friends seeing what is published about me or what I publish myself; however, after having been stalked I'm cautious about releasing personal information to people I don't know well.

10/16/2013 4:03 PM

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I don't want offensive things to be published about myself in Facebook, but I don't give too much attention or care about things said about me in Facebook.

10/16/2013 3:48 PM

---

I want to go change everything to make it as private as possible.

10/16/2013 3:38 PM

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I like to be in control of pictures I'm tagged in, but am pretty lenient with posts.

10/16/2013 3:35 PM

---

I care about how I look in the pictures I'm tagged in

10/16/2013 3:28 PM

---

I am careful about what I post online and my friends do their best to respect my privacy. But I will not remove tags or images of myself if family and friends post them - as long as they are respectful

10/16/2013 3:21 PM

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If I post something, it is because I am ok with putting it out there. However, if someone posts something they tag me in, I review it before approving it.

10/16/2013 3:12 PM

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There are some photos I'd rather not be on my wall.

10/16/2013 3:02 PM

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Really not concerned. I rarely post and never post pics.

10/16/2013 2:59 PM

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I don't do anything discriminatory, nor do I really do anything that people would find worth posting.

10/16/2013 2:53 PM

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i only do this if there are things that I do not want totally public

10/16/2013 2:44 PM

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I care somewhat about what is published. I want to keep some things private, between me and those on my friends list.

10/16/2013 2:42 PM

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I just have no concerns, nothing will really have any affect on my life.

10/16/2013 2:20 PM

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I don't mind pictures of me being tagged but I get annoyed and untag many political posts I am tagged in or when someone just wants me to see something so they tag me in it.

10/16/2013 2:16 PM

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There is no way to opt out of Facebook searches anymore, I would rather not have Facebook have any more information about me than possible

10/16/2013 2:03 PM

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I really only care about pics of my daughter that are posted

10/16/2013 2:02 PM

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Don't care

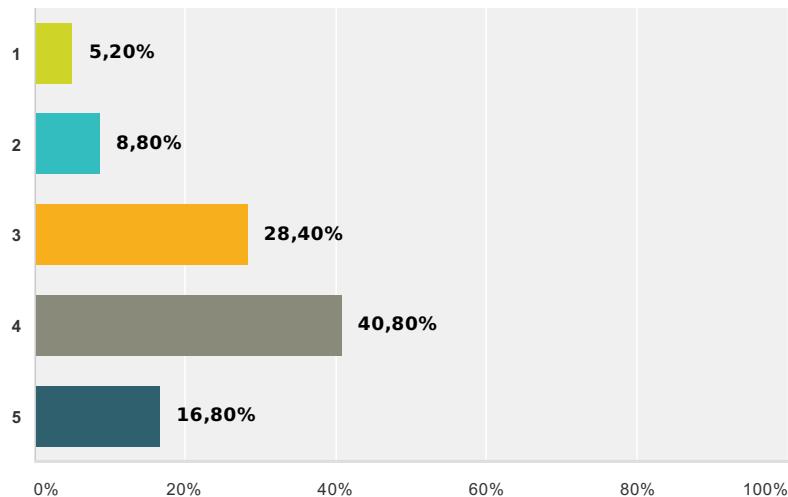
10/16/2013 1:07 PM

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## Interdependent Privacy on Facebook

**Q22 To what degree are you selective about what you post about others on a scale from 1 - 5, where 1 is "I am not selective at all, I post everything" and 5 is "I never post anything about anyone" (pictures, comments etc.)? Please elaborate in the text box below**

Besvart: 250 Hoppet över: 0



I usually ask before I put pictures out on facebook of someone else. But I tag people in comments when I want them to see the post.

11/7/2013 6:31 PM

---

I consider it carefully before I post anything containing others.

11/7/2013 3:59 PM

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I very seldom post anything.

11/7/2013 3:36 PM

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i don't share any one's personal pictures. I share only some interesting content. Also I don't post any pictures of me or my friends.

11/6/2013 3:33 AM

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I always think very hard before posting anything, so as not to offend or create awkwardness.

11/5/2013 9:03 PM

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I will not get into trouble by posting something nonsense or commenting irrelevantly. I avoid such things for safety measures.

11/5/2013 12:39 PM

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That, I am careful because it involves other people's rights.

11/5/2013 5:37 AM

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Never really post bad things on Facebook

11/4/2013 10:52 PM

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I don't like to start drama

11/4/2013 10:01 PM

---

I usually ask people first if they would or wouldn't want me to post

11/4/2013 8:54 PM

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I post everything, unless asked not to, or unless I see it as something inappropriate to post.

11/3/2013 9:23 PM

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I do limit what I post - things that are super personal, I keep off fb.

11/3/2013 9:13 PM

---

I only post things I think my friends would be interested in seeing.

11/3/2013 6:58 PM

---

I do post about others but I make sure they are comfortable with me doing so first.

11/3/2013 6:28 PM

---

I post a few pictures of friends, especially if they ask me to.

11/2/2013 8:40 PM

---

I only post about others who I consider good friends.

11/2/2013 8:01 PM

---

I don't post anything my kids wouldn't like.

11/2/2013 4:15 PM

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I select photos of my friends before I post on Facebook. I rarely tag my friends.

11/1/2013 8:48 AM

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I only post positive comments about someone else

11/1/2013 12:04 AM

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Facebook is weird. I don't put too much on it.

10/31/2013 10:53 PM

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I would never post embarrassing things or something that would offend anyone.

10/31/2013 2:42 PM

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I tend to post when I feel like it. I don't really like getting too personal on social networks.

10/31/2013 9:03 AM

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I can be selective at times because I know that other people might be offended.

10/31/2013 4:47 AM

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I don't like to post things about other people because I don't think that's my place.

10/30/2013 10:30 PM

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I am cautious not to embarrass anyone or make them mad.

10/30/2013 10:08 PM

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I feel I have an opinion that can be shared with just about everyone.

10/30/2013 6:27 PM

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I do not want to offend anyone so I am careful what I post about others.

10/30/2013 5:39 PM

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Same as above.

10/30/2013 5:00 PM

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I'm only posting interesting things now.

10/30/2013 8:55 AM

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i post whatever I want without care

10/30/2013 7:39 AM

---

I try and be considerate to others feelings

10/30/2013 3:02 AM

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I like photography, so I always post pictures I have taken of people at events and such. I never post anything compromising to anyone though - no smoking, drinking, inappropriate clothing etc. I don't really comment on anything unless it is a photo I like.

10/30/2013 2:49 AM

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I only post things that won't offend the other person.

10/29/2013 5:14 PM

---

I post what I want/

10/29/2013 5:13 PM

---

I am careful on what I do on facebook. I don't do things I wouldn't want done to me.

10/29/2013 3:59 PM

---

I never post pictures or anything I think is really important.

10/29/2013 3:14 PM

---

I don't like to start Facebook arguments. I believe that if I have a problem with someone, I'll take it to private messaging or over the phone.

10/29/2013 3:06 PM

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i go through spurts of posting.

10/29/2013 2:53 PM

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As long as it's not embarrassing photos from a night out, then I don't mind

10/29/2013 2:41 PM

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I try not to be too personal

10/29/2013 2:41 PM

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If it is positive, I post it. I never post photos without permission, and then I don't tag them. I do not use facebook to settle personal drama or disputes.

10/29/2013 2:39 PM

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I only post picture of others and let them tag themselves if they want.

10/29/2013 2:29 PM

---

Not going to post anything that will upset anyone.

10/29/2013 2:20 PM

---

i respect peoples privacy

10/29/2013 2:04 PM

---

I will post comments joking about my close friends and sister but nothing embarrassing or hurtful

10/29/2013 1:41 PM

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I don't use FB much, but I also don't believe in putting other people out there.

10/29/2013 6:15 AM

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I dont post/tag often, especially on my own wall. I may tag friends on posts which they might find interesting

10/29/2013 12:38 AM

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I am very careful about what I post and what it says about me

10/28/2013 4:30 PM

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I think before posting how what I am posting might affect myself and the person I am tagging or may be in the picture. I understand that some content can have affects on others.

10/28/2013 4:26 PM

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It's not my call to post other people on FB. I'd ask first.

10/28/2013 2:09 PM

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I don't post anything that is secretive.

10/27/2013 10:50 PM

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i want people to feel comfortable

10/27/2013 7:51 AM

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i really dont post much i might post something dumb

10/27/2013 6:18 AM

---

I am very cautious about posting things about other people

10/27/2013 2:35 AM

---

i tend to not post much about others

10/27/2013 2:19 AM

---

I try to respect other people's privacy

10/27/2013 2:15 AM

---

I make sure that I don't post too much personal information about myself. It's all just music that I like and wonderful quotes or fliers that I like.

10/27/2013 2:02 AM

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I'm not going to get in an argument, or gossip or talk negative about people I know.

10/27/2013 2:50 AM

---

I don't ever post anything about other people. I don't have the time to care really.

10/27/2013 2:47 AM

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I rarely post about others, but when I do I make sure it is something that is ok and if it is a picture I get permission first.

10/27/2013 2:23 AM

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I don't care enough to post regularly.

10/26/2013 10:52 PM

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Poster ikke bilder som stiller andre i et dårlig lys

10/26/2013 2:52 PM

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i dont post about others

10/26/2013 4:39 AM

---

I try to mind my own business.

10/26/2013 1:19 AM

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If someone tell me to not post a picture, I wont. Anyways, Im not that active on the "posting" front

10/25/2013 2:35 PM

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Privacy is important to me. It's meaningless not to give others the same courtesy.

10/25/2013 2:14 PM

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I mostly use Facebook to occasionally share links/videos with friends and to get news updates from sites that I "like".

10/25/2013 2:10 PM

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I try to consider other's privacy

10/25/2013 12:58 PM

---

I am selective about all my posts

10/25/2013 12:18 PM

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I always try not poste embarrassing comments or anything about someone

10/25/2013 10:26 AM

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Others understand you from the quality of your posts and likes

10/25/2013 5:00 AM

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I am very careful about what I say. I made sure what I say won't offend anyone, and any commenting about events is left vague.

10/25/2013 4:50 AM

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I do still want to communicate and share things with friends and family.

10/25/2013 4:23 AM

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I rarely post about others unless it's nice

10/25/2013 4:11 AM

---

I don't want to start drama with people so I really am careful about what I post in regards to other people.

10/24/2013 11:02 PM

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Try to limit the exposure to harmless / positive things only

10/24/2013 5:00 PM

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I don't bother much about facebook.

10/24/2013 4:55 PM

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I very rarely post photos and things about others.

10/24/2013 4:12 PM

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I always ask for permission to post things about/with others.

10/24/2013 2:03 PM

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I am careful about what I post about others because I don't know how open they are. And I don't want to make anyone "look bad" or have people see a different side of them than they want to show.

10/24/2013 1:39 PM

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Don't do it too often, but try to be aware of what I would think if what I published was about me  
10/24/2013 12:34 PM

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I try not to post anything people would be uncomfortable with being on the internet  
10/23/2013 8:11 PM

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I know that there are some people like me who like to be private and would respect that. I always ask if it is ok for me to post a photo or something first before I do it.  
10/23/2013 7:45 PM

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-  
10/23/2013 1:16 PM

---

I don't really post about my friends on facebook.  
10/23/2013 12:15 PM

---

I generally just post everything unless told not to.  
10/23/2013 1:58 AM

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I mostly post with people's consent.  
10/22/2013 8:33 PM

---

I am slightly selective. I post pictures of friends sometimes, but I make sure it's ok with them first.  
10/22/2013 8:08 PM

---

I figure if I put it out there, I should be comfortable with everyone seeing it.  
10/22/2013 7:59 PM

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I rarely post on to other peoples facebook anyway and when I do I rarely think about being careful or selective.  
10/22/2013 4:32 PM

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Tar en vurdering på det jeg legger ut - legger skjeldent ut noe  
10/22/2013 3:03 PM

---

I try to avoid to post stuff about others that they find uncomfortable or embarrassing.  
10/22/2013 12:38 PM

---

think about if it was me  
10/22/2013 12:35 PM

---

I only post things about friends I know are fine with it. I would never post anything about others that I would not like them to post about me.  
10/22/2013 12:14 PM

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I dont post things without people knowing about it!  
10/22/2013 11:56 AM

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They can post about themselves.  
10/22/2013 11:34 AM

---

I never post anything on facebook  
10/21/2013 10:08 PM

---

I post things that aren't sensitive.  
10/21/2013 8:54 PM

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I don't post bad things about others.  
10/21/2013 8:44 PM

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I would never post anything personal about anybody. I feel this is a breech of friendship.  
10/21/2013 8:23 PM

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I wouldn't want to accidentally embarrass anyone with a comment or anything  
10/21/2013 8:09 PM

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Same as above.

10/21/2013 5:19 PM

---

I will post things about others but I will also inform them that I am doing it.

10/21/2013 3:26 PM

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I dont post anything that I know will affect how certain people see me and if it is disrespectful to my family

10/21/2013 3:25 PM

---

I don't post much random stuff anymore but I still post when I feel like it.

10/21/2013 2:34 PM

---

I rarely post anything about others, just share or re-post from my timeline.

10/21/2013 8:30 AM

---

I try not to post about family issues

10/21/2013 5:42 AM

---

I am cautious about what I post, only posting non private matters

10/21/2013 1:59 AM

---

I hardly post about other. If i post i make sure they like it

10/20/2013 11:22 PM

---

I do not post at all

10/20/2013 2:49 PM

---

I usually do not post on Facebook.

10/20/2013 1:17 AM

---

I don't comment frequently

10/19/2013 11:55 PM

---

I sometimes post about friends but usually just observe what others do...

10/19/2013 10:01 PM

---

I try to watch "wall litter". Not everyone wants to know when I level up on a game.

10/19/2013 8:05 PM

---

sometimes

10/19/2013 7:41 PM

---

I post anything that is informative, educational, joyful and entertaining contents that wont hurt any of my friends, in my timeline.

10/19/2013 1:30 PM

---

I post only selective content which I like and mostly pleasant content which will not affect anyone.

10/18/2013 11:47 PM

---

I never post personal info about myself

10/18/2013 6:57 PM

---

The posting shows that the thought about myself. So its important for me.

10/18/2013 4:34 PM

---

I hardly ever post anything about anyone unless it's directly related to the situation. And even then, I ask before I do.

10/18/2013 3:30 PM

---

It varies.. I don't try to hurt anyone's feelings but I will post a lot of news stories.

10/18/2013 7:23 AM

---

I don't put up anything negative about anyone

10/18/2013 2:51 AM

---

i dont post anything inappropriate

10/18/2013 2:43 AM

---

I'm OK with publicizing things about myself, but don't want to presume on others.

10/18/2013 12:58 AM

---

I will post about people- I just try to remember it's a public forum to some extent, and moderate accordingly.

10/17/2013 7:54 PM

---

Because I don't like people posting pictures of my child, I don't post pictures of theirs.

10/17/2013 6:28 PM

---

I don't post drama and nonsense

10/17/2013 5:57 PM

---

I post nothing about others

10/17/2013 3:42 PM

---

I respect others feelings

10/17/2013 12:56 PM

---

I never post - only look at other's posts

10/17/2013 7:06 AM

---

I only post good things about people and nothing that hurts anyone.

10/17/2013 5:21 AM

---

I don't like to mention anything that could be adverse to someone else. Not that I would post negative things, but the best policy is to keep ones business to themselves.

10/17/2013 5:16 AM

---

Do not post anything negative.

10/17/2013 5:11 AM

---

I do not post. I only talk to people in offline

10/17/2013 3:00 AM

---

While I post frequently (generally a close group of people), I make sure to keep it light-hearted and don't post anything that private or personal.

10/17/2013 2:16 AM

---

I care somewhat

10/17/2013 1:56 AM

---

i post whatever i want but i try to be nice and civilized

10/16/2013 9:44 PM

---

I post pictures of my family and things but not daily, mostly special occasions

10/16/2013 9:39 PM

---

I am careful about posting some pictures and information. I don't post anything when we go on vacation until we get back.

10/16/2013 8:51 PM

---

I rarely post about other people and if I do I make sure that it is ok and I usually ask them beforehand.

10/16/2013 8:26 PM

---

I don't really use Facebook and don't like the idea of my friendship being monetized

10/16/2013 8:20 PM

---

I barely post

10/16/2013 8:17 PM

---

I do it on a case by case basis

10/16/2013 8:03 PM

---

I rarely post or share anything.

10/16/2013 8:02 PM

---

I usually leave stuff that others post about me but rarely tag/mention others

10/16/2013 8:00 PM

---

I hardly post at all anymore

10/16/2013 7:52 PM

---

I don't post about other people at all, typically. I will tag them if I want them to read something

10/16/2013 7:52 PM

---

I use a lot of discretion on facebook.

10/16/2013 7:42 PM

---

I only post certain things because I don't want people to have anything to use against me

10/16/2013 7:41 PM

---

It's up to them to decide what information is released on their timeline. I would never post anything that would make them look bad, though.

10/16/2013 7:38 PM

---

I care about not posting things that could offend anyone.

10/16/2013 7:30 PM

---

I think pretty hard about what I want to post and whether or not the other person would feel comfortable. However, I do make posts.

10/16/2013 7:30 PM

---

I don't post for other people

10/16/2013 7:29 PM

---

i dont like to post about other people

10/16/2013 7:29 PM

---

I post what I feel will be funny.

10/16/2013 7:23 PM

---

The things posted about others are mainly family photos and comments and my family don't mind those posts.

10/16/2013 7:04 PM

---

I post selective things only which does not intrude into ones privacy and which does not hurt or offend others.

10/16/2013 6:08 PM

---

I rarely post things

10/16/2013 5:42 PM

---

I don't post about other people on my facebook page.

10/16/2013 5:27 PM

---

I am very picky about what I post and usually only post pictures of family and am careful to make sure they are appropriate.

10/16/2013 5:16 PM

---

I never post anything about anyone.

10/16/2013 5:04 PM

---

i post some stuff, not much

10/16/2013 4:34 PM

---

I only share stuff on my friends wall content I know they will enjoy.

10/16/2013 4:33 PM

---

i don't do this as a rule

10/16/2013 4:25 PM

---

I am very careful as to what I post mostly because of my grandchildren I don't want strangers to see things about them or pictures of them.

10/16/2013 4:22 PM

---

I do not posted anything about anyone but myself. It is my page and it is about me, not others.

10/16/2013 4:21 PM

---

I rarely ever post anything about others, except for maybe my kids and that's so family can stay updated on them

10/16/2013 4:16 PM

---

I just don't. Not in my nature I guess.

10/16/2013 4:14 PM

---

I try not to share others business

10/16/2013 4:05 PM

---

I am careful about what I post of anyone else, I don't want to intrude anyone's privacy.

10/16/2013 4:04 PM

---

I try to make upbeat posts that aren't too personal. I don't want to embarrass anyone.

10/16/2013 4:03 PM

---

I often take into account others feelings in to consideration, before posting a comment of a picture about them. I don't want to offend someone or hurt their feelings with my post, however I don't pay much attention when it comes to "close' friends.

10/16/2013 3:48 PM

---

I never post stuff about others

10/16/2013 3:38 PM

---

I don't post anything offensive about others.

10/16/2013 3:35 PM

---

Seldom post comments about others, don't post ugly pictures of friends

10/16/2013 3:28 PM

---

I make sure that anything I post is something that the other person would be happy to see and have seen by anyone.

10/16/2013 3:21 PM

---

I want my friends to be respectful of my privacy so I am respectful of theirs. I would not want to infringe on their privacy by posting about them.

10/16/2013 3:12 PM

---

I respect my friends' privacy.

10/16/2013 3:02 PM

---

Usually do not post much of anything, other than few links and comments on friends walls

10/16/2013 2:59 PM

---

I would never post about anyone in particular. That's their business to post, not mine.

10/16/2013 2:53 PM

---

i am careful about some of the things that get posted mainly for job reasons.

10/16/2013 2:44 PM

---

I tend to only post things(comments, pics, articles) for me and those that are on my friends list(family).  
10/16/2013 2:42 PM

---

My FB is a free page on fun, anything goes!  
10/16/2013 2:20 PM

---

I take others feelings into account when posting.  
10/16/2013 2:16 PM

---

Facebook has the legal rights to any pictures you post on their website, I try to limit how much I give to the corporation  
10/16/2013 2:03 PM

---

I usually do not post anything about anyone I do not want hurt feelings  
10/16/2013 2:02 PM

---

I never post  
10/16/2013 1:07 PM

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**Q23 Is it important to you that the content  
of your profile is only visible to your  
facebook friends? Please explain.**

Answered: 250 Skipped: 0

Yes, I don't want others/ strangers to see my personal pictures or comments. I want to know who sees my personal stuff.

11/7/2013 6:31 PM

---

Yes. I somewhat want to have control over who views my pictures and reads my updates.

11/7/2013 3:59 PM

---

Yes, because I then have allowed them to

11/7/2013 3:58 PM

---

ja

11/7/2013 3:46 PM

---

People I don't know have no reason to see all my stuff.

11/7/2013 3:36 PM

---

yes

11/6/2013 12:35 PM

---

no

11/6/2013 11:25 AM

---

yes that is important mainly because of spammers

11/6/2013 3:33 AM

---

Yes. There are a few people from my past that I do not want to see anything about me.

11/5/2013 9:03 PM

---

Yes. I must be exposed only to the people whom I know. Otherwise, it would deliver me a lot of trouble.

11/5/2013 12:39 PM

---

Yes. I cannot show it to anyone who are not my friends yet.

11/5/2013 5:37 AM

---

yes, so no one else knows what you are saying

11/4/2013 10:52 PM

---

Yes, there are crazy people out there that can get a lot of personal information from facebook

11/4/2013 10:01 PM

---

Not too important but I like it being only friends.

11/4/2013 8:54 PM

---

Yes, because I post a lot about my feelings and emotions, and some of it I don't wish to share with strangers.

11/3/2013 9:23 PM

---

Yes - I don't want just anyone to find out personal info about me.

11/3/2013 9:13 PM

---

I do not want my page public because I do not want people I do not know to have access to my photos and information.

11/3/2013 6:58 PM

---

Yes I do not want strangers knowing my personal information.

11/3/2013 6:28 PM

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Yes. I'd rather not have random strangers able to find out personal info, and see all the pictures I post, etc. They have no need to and it could lead to targeted crime if someone say, announces they go on vacation and a crook knows where they live.

11/2/2013 8:40 PM

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No Anyone can read the content because I don't have anything sensitive on my profile.

11/2/2013 8:01 PM

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Yes, I do not want my info public.

11/2/2013 4:15 PM

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yes, i want my privacy

11/1/2013 1:17 PM

---

Yes. I do not want people who I do not know see and access my profile.

11/1/2013 8:48 AM

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Yes. I don't want "everyone" to see what I post.

11/1/2013 12:04 AM

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Yes. I've had stalkers in the past.

10/31/2013 10:53 PM

---

Yes, I don't want the whole world to be able to see my profile, only people I know.

10/31/2013 2:42 PM

---

Sort of. I wouldn't want just any weirdo looking at my profile.

10/31/2013 9:03 AM

---

Yes because I do not like people I don't know adding me or messaging me.

10/31/2013 4:47 AM

---

I don't want people I don't know to be able to view my profile.

10/30/2013 10:30 PM

---

No, not really. I'm not posting anything that I wouldn't want a stranger to see.

10/30/2013 10:08 PM

---

A little bit but not that much, its there for anyone I approve to see.

10/30/2013 6:27 PM

---

Yes, I do not want just anyone to know a lot of things about me. It is a safety issue.

10/30/2013 5:39 PM

---

I don't want people getting my information.

10/30/2013 5:00 PM

---

No, whatever. I don't care anymore.

10/30/2013 8:55 AM

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no, if someone thinks my life is important enough to check out then I am ok with that.

10/30/2013 7:39 AM

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because it is private data

10/30/2013 3:55 AM

---

I dont care to show strangers my children

10/30/2013 3:02 AM

---

Yes. I do not want anyone to be able to see pictures of me or any of my personal information if I do not know them. I know it's a slim chance that anything will happen, but some people will use things like that for criminal purposes. I don't want to be the girl on "Catfish" whose picture got used for a scam.

10/30/2013 2:49 AM

---

yes

10/29/2013 6:24 PM

---

Yes, I don't want my personal business to be exposed to everyone on the internet, so I limit it to friends only.

10/29/2013 5:14 PM

---

No. It makes no difference to me who can see my profile.

10/29/2013 5:13 PM

---

no. there is nothing revealing about my posts.

10/29/2013 3:59 PM

---

Yes, I do not need strangers looking at my stuff.

10/29/2013 3:14 PM

---

Yes it is important, because I do have some people that I may not want them to know what I'm up to. Like ex boyfriends.

10/29/2013 3:06 PM

---

yes, i value privacy.

10/29/2013 2:53 PM

---

Yes, I don't want friends of friends to see conversation about us. I don't want to make more friends with others.

10/29/2013 2:41 PM

---

yes, because I dont want the whole world to see what I do

10/29/2013 2:41 PM

---

Yes. I don't want strangers knowing about my life or my family's life.

10/29/2013 2:39 PM

---

I let my friends of friends see some things, that way if they think they know me they can look at my pictures and see. I'm not overly concerned about who can look at my profile.

10/29/2013 2:29 PM

---

No I do not care who sees it.

10/29/2013 2:20 PM

---

no i have nothing to hide

10/29/2013 2:04 PM

---

I don't mind the basic being shown publicly but not my whole page or private info such as address, email, or phone #s

10/29/2013 1:41 PM

---

Yes. I don't want strangers seeing my profile.

10/29/2013 1:04 PM

---

Not really. I don't use it often enough to warrant it, I kinda see FB as a way for people to look me up if they need to, so I intend it to be public.

10/29/2013 6:15 AM

---

yes. no further elaboration

10/29/2013 1:13 AM

---

Yes. They are people I don't mind seeing the info. Making it 100% public makes it that much easier for bad things to happen

10/29/2013 12:38 AM

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Yes

10/28/2013 8:58 PM

---

Yes

10/28/2013 7:09 PM

---

No, anyone can view what I post

10/28/2013 4:30 PM

---

It is important to me that my content be only available to friends because I do not want some content to be viewed by people such as family members and more importantly, job prospects and future employers.

10/28/2013 4:26 PM

---

Yes. I don't want people I don't know to see my profile for stalking purposes or job purposes.

10/28/2013 2:09 PM

---

It can be public and I won't care who reads or looks at it. I use facebook to communicate with others so anything I post if pretty much nothing.

10/27/2013 10:50 PM

---

Need to know-basis

10/27/2013 12:05 PM

---

5 - because they are the only ones that I care to share with

10/27/2013 7:51 AM

---

yes there are other people I don't want to see pics of my kids.family

10/27/2013 6:18 AM

---

Yes, because if I wanted the whole world to access it I would put it public.

10/27/2013 2:35 AM

---

no because I want prospective friends to be able to see

10/27/2013 2:19 AM

---

yes - to anyone else it is just gossip

10/27/2013 2:15 AM

---

Yes, I don't want people finding me and spying on me. I am very careful with that.

10/27/2013 2:02 AM

---

Not too much because I just don't put anything too private on Facebook.

10/27/2013 2:50 AM

---

It is not that important that only my friends can see my content. But as of right now I have it set to only my friends can see it.

10/27/2013 2:47 AM

---

It is important to me that most of it is, like my posts and pictures. I'm pretty private as it is, but I don't completely lock down unless I have had issues with someone then I might make it more private.

10/27/2013 2:23 AM

---

Yes because there are creepy people everywhere.

10/26/2013 10:52 PM

---

Nei, publiserer ikke ting som ikke kunne stått i avisa.

10/26/2013 2:52 PM

---

no because I never put private things on there

10/26/2013 4:39 AM

---

Yes. People are crazy. Better safe than sorry.

10/26/2013 1:19 AM

---

it is

10/25/2013 4:19 PM

---

I have the attitude of everything you post to facebook is information that you should be able to tell anyone, without any concerns.

10/25/2013 2:48 PM

---

Yes, those I don't know should not be able to snoop around without me knowing it.

10/25/2013 2:35 PM

---

Se elaboration on question 21.

10/25/2013 2:14 PM

---

To a certain extent. If there were no possibility to make my profile private I'd probably use FB as I do today. However, since the option is there I have blocked off anyone but friends.

10/25/2013 2:10 PM

---

no

10/25/2013 2:09 PM

---

yes

10/25/2013 2:02 PM

---

Yes

10/25/2013 1:59 PM

---

10/25/2013 1:51 PM

---

yes

10/25/2013 1:43 PM

---

yes

10/25/2013 1:28 PM

---

Yes, I want to have control over who can see my profile

10/25/2013 1:13 PM

---

yes, or friends of friends.

10/25/2013 1:13 PM

---

Friends of friends should be ok. That might include some risk, but hey - it's the internet..

10/25/2013 12:58 PM

---

I don't want a public life

10/25/2013 12:18 PM

---

My profile is public with public information chosen by me. I manage the visibility of my timeline by the privacy settings.

10/25/2013 10:26 AM

---

Yes, Internet is like an open road. lot of people come and go. Why anybody wants to show his personal things to the public

10/25/2013 5:00 AM

---

It is important for me that my profile is only visible to my friends. I like controlling my image, and if anyone can just look at my wall, they don't get to see me in a controlled manner. I have no control over how much I introduce to them.

10/25/2013 4:50 AM

---

It is important to me that friends only can see my profile because I want to maintain my privacy and my friends on Facebook are usually friends (or at least acquaintances) in real life.

10/25/2013 4:23 AM

---

No, I want people to be able to find me on Facebook

10/25/2013 4:11 AM

---

Yes

10/25/2013 12:44 AM

---

yes

10/24/2013 11:59 PM

---

People I'm not friends with do not need to see my page.

10/24/2013 11:02 PM

---

Yes, what I share is intended for my friends. However, I avoid posting anything that could be considered inappropriate anyway.

10/24/2013 9:35 PM

---

yes, facebook shoud mirror real life, its not a public gallery

10/24/2013 5:00 PM

---

Yes. I want to keep control of who has access to the information on my profile, and I don't see any reason why strangers should be able to see my profile.

10/24/2013 4:55 PM

---

Jepp

10/24/2013 4:49 PM

---

Yes.

10/24/2013 4:43 PM

---

because I dont want everyone to see what Im doing/my pictures

10/24/2013 4:26 PM

---

Yes, this is very important, I don't want the public to see anything else than basic information.

10/24/2013 4:12 PM

---

yes, then I don't have to think about what's on my profile.

10/24/2013 3:23 PM

---

yes. Because of old pictures when I was younger

10/24/2013 3:14 PM

---

Yes.

10/24/2013 3:03 PM

---

Yes, to a certain extent, as I mainly use facebook to keep in touch with friends, thus I do not want anything published that is public that later affects my future negatively.

10/24/2013 2:51 PM

---

yes

10/24/2013 2:21 PM

---

Yes, I do like some privacy

10/24/2013 2:19 PM

---

Yes. Because it's private for me. Not anything that I'm ashamed, but I don't like the idea of people snooping around and knowing everything about my daily life.

10/24/2013 2:03 PM

---

Yes. I would like to avoid unwanted/uninvited people to see my posts and photos.

10/24/2013 1:44 PM

---

No, not that important. As I said I feel like what I do in life should be things that I can be proud of and then it won't be a problem for me to have it on my facebook profile either.

10/24/2013 1:39 PM

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10/24/2013 1:37 PM

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yes, I don't want personal stuff such as my phone number to be visible for unknown people  
10/24/2013 1:14 PM

---

Yes, that is quite important

10/24/2013 1:09 PM

---

yes, i don't want everyone to be able to see what i am doing  
10/24/2013 1:08 PM

---

Yes, I don't want that people I don't know can see things on my profile.

10/24/2013 12:55 PM

---

Yes, because of security

10/24/2013 12:41 PM

---

Yes. Generally don't want randoms/strangers to have access to the data.

10/24/2013 12:34 PM

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-

10/24/2013 11:12 AM

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Yes, because it is personal, but one must be aware that someone else may see it as well  
10/23/2013 8:11 PM

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Very, I don't like the idea of other people being able to steal my photos for whatever reason.  
10/23/2013 7:45 PM

---

Ja, ellers kan hvem som helst stalke meg :)

10/23/2013 1:16 PM

---

It's not that important. I don't really post anything that might be uncomfortable if some one other than my friends see it.

10/23/2013 12:15 PM

---

no

10/23/2013 11:42 AM

---

Yes, I'd only like my friends to see what I am doing, not strangers.  
10/23/2013 1:58 AM

---

Yes, so I know who can see stuff.

10/22/2013 8:33 PM

---

Yes. I feel that I'm pretty private overall. I like only my friends to see what I post.  
10/22/2013 8:08 PM

---

No, I don't care too much.

10/22/2013 7:59 PM

---

Sånn passemasse.  
10/22/2013 7:51 PM

---

Yes

10/22/2013 5:54 PM

---

Then they know the real facts about me when they look at my profile.  
10/22/2013 5:12 PM

---

I don't want to live a public life

10/22/2013 5:08 PM

---

Yes. I would not want just anyone to find me or information related to me.

10/22/2013 4:32 PM

---

Ja, da har man litt bedre kontroll ihvertfall

10/22/2013 3:03 PM

---

Yes.

10/22/2013 12:42 PM

---

Yes, because once things are public it becomes way too uncontrollable. I would find it uncomfortable that just anybody could look through my pictures, pictures of me, and similar.

10/22/2013 12:38 PM

---

yes

10/22/2013 12:35 PM

---

Yes

10/22/2013 12:32 PM

---

yes

10/22/2013 12:27 PM

---

Yes

10/22/2013 12:27 PM

---

Yes. However, I think its fine that other people can look me up and see name and profile pictures (Fex if people want to find old friends on facebook)

10/22/2013 12:14 PM

---

Yes, I like pepole to get to know me the old way

10/22/2013 11:57 AM

---

Very important! I don't want any information about me to be public for just anybody. I also have restrictions on the friends I no longer know that well, what they can see etc

10/22/2013 11:56 AM

---

Sort of, it prevents crawlers to generate a profile on me to use for social engineer attacks etc.

10/22/2013 11:34 AM

---

It's the value of using facebook

10/22/2013 11:32 AM

---

I dont want to make it available to other people than my friends...

10/22/2013 11:30 AM

---

yes. I don't want my poststo be available to anyone

10/22/2013 11:29 AM

---

Yes, because I don't want stranger "spying" on me

10/21/2013 10:08 PM

---

yes. I don't want random people looking at my profile.

10/21/2013 8:54 PM

---

We;;, not super important, but I feel that it should only matter to them.

10/21/2013 8:44 PM

---

I think that friends of of friends should be able to see my profile because sometimes they are friends of mine that I forget about or are prospective friends. Anything beyond that I deem unacceptable.

10/21/2013 8:23 PM

---

Yes. I don't want strangers to know anything about me.

10/21/2013 8:09 PM

---

Yes, because I like to know who is looking at my information. If I have it set to only friends, I know the group of people who see my stuff - not just random browsing people.

10/21/2013 5:19 PM

---

Yes it is important to me because I would like to keep my life private to my friends and not strangers.

10/21/2013 3:26 PM

---

Yes, I don't want just everyone in the world reading my posts

10/21/2013 3:25 PM

---

No, because I don't post anything private.

10/21/2013 2:34 PM

---

yes because I don't really want the world to know what is going on with me. I don't usually post anyway

10/21/2013 11:47 AM

---

No, Any one can see, I dont think about it too much.

10/21/2013 8:30 AM

---

yes, I don't want everyone in the world, especially people I don't know, knowing about my life

10/21/2013 5:42 AM

---

Yes, it's no one else's business

10/21/2013 1:59 AM

---

its important because i dont want any strangers to get know about me and my whereabouts

10/20/2013 11:22 PM

---

yes - you can't be too careful

10/20/2013 2:49 PM

---

Not really, I don't have many sensitive items on there.

10/20/2013 1:17 AM

---

Yes, I don't want strangers to see it

10/19/2013 11:55 PM

---

you never know what people might do with your info... I've met many nut jobs and know that facebook is open to everyone I'm pretty sure that there are loads of stalkers out there...

10/19/2013 10:01 PM

---

I don't actually worry about much of that, I'm pretty open.

10/19/2013 8:05 PM

---

yes. it's somewhat important to me.

10/19/2013 7:41 PM

---

No, I don't add private messages or comments so that it should be hidden from others even if it is a visitor and not a friend.

10/19/2013 1:30 PM

---

No Every one should see my content is important to me.

10/18/2013 11:47 PM

---

yes, very important. i don't want old boyfriends, or enemies, or my ex husband's lawyer or wife snooping in and being able to see everything I post. I don't want to be looked up on the internet. I just want my friends to see the content.

10/18/2013 11:09 PM

---

Yes, because you do not want a stranger to do anything hateful or misleading to others on your page.

10/18/2013 9:23 PM

---

no, i don't post personal info, so it makes no difference either way to me  
10/18/2013 6:57 PM

---

Yes. Because Its says about me.  
10/18/2013 4:34 PM

---

Yes. There are some people I don't want seeing my profile. Only people I allow can see it.  
10/18/2013 3:30 PM

---

Yes.. I have an anxiety disorder, get nervous easily and don't want my info in the wrong hands plus we are avoiding some people and hiding from them.  
10/18/2013 7:23 AM

---

I'm a private person  
10/18/2013 2:51 AM

---

yes, I only care about them seeing stuff  
10/18/2013 2:43 AM

---

Somewhat. I don't want the whole wide world to see everything about me.  
10/18/2013 12:58 AM

---

Not really- I don't have anything there that could compromise anything for me.  
10/17/2013 7:54 PM

---

Yes,a s said before my estranged mother in law uses content on Facebook to hurt or insult my family.  
10/17/2013 6:28 PM

---

No I do keep it so that is all that is seen  
10/17/2013 5:57 PM

---

Yes, I don't want anyone else seeing photos, posts, etc.  
10/17/2013 3:42 PM

---

Yes, I do not like others to spy on my profile.  
10/17/2013 12:56 PM

---

Yes, I don't want people to beable to search for me.  
10/17/2013 7:06 AM

---

Yes, because people who are strangers doesnot have anything to do with me.  
10/17/2013 5:21 AM

---

I just don't need to feel my privacy might be invaded.  
10/17/2013 5:16 AM

---

no  
10/17/2013 5:11 AM

---

Yes I only want my friends to see things if Iwere to post things. not the general public  
10/17/2013 3:00 AM

---

Yes. I have no desire for strangers to see private information about me. It's voyeuristic and plain creepy.  
10/17/2013 2:16 AM

---

I want some privacy and don't want anyone to be able to see my profile  
10/17/2013 1:56 AM

---

yes, i just like to keep things simple  
10/16/2013 10:41 PM

---

not really...if others want to look i'm ok with that so far  
10/16/2013 9:44 PM

---

Yes., I don't want any strangers seeing my information or pictures  
10/16/2013 9:39 PM

---

Yes, I have a lot of people (in-laws, especially) that I don't want to see my information or what I'm doing.  
10/16/2013 8:51 PM

---

Yes, I dont want anyone to be able to use my info for other things especially companies.  
10/16/2013 8:26 PM

---

Yes, I do not want strangers and brands prying into my life  
10/16/2013 8:20 PM

---

Not really important, but it is a choice  
10/16/2013 8:17 PM

---

Yes for privacy reasons  
10/16/2013 8:03 PM

---

Pretty much, although I am careful that I share no personal information or sensitive information with those who I do not know. There is a chat and message function for that.  
10/16/2013 8:02 PM

---

I think it is best that just friends see profiles not the entire public internet  
10/16/2013 8:00 PM

---

yes, i don't want people i just met or don't know well looking me up  
10/16/2013 7:52 PM

---

Yes. Too much data out there for anybody to have.  
10/16/2013 7:52 PM

---

Yes. I want my email address private except for friends. I am careful about who I friend.  
10/16/2013 7:42 PM

---

Yes because I don't trust people I don't know  
10/16/2013 7:41 PM

---

Yes. I know these people, and that's why I've restricted my content to friends only.  
10/16/2013 7:38 PM

---

Yes it is. It's because I post things (pictures, comments, etc) about my child. I don't want people I don't know to view my child's pictures.  
10/16/2013 7:30 PM

---

Yes. I have no interest in sharing my facebook profile to the world. The content on there is just for my friends.  
10/16/2013 7:30 PM

---

Not that important  
10/16/2013 7:29 PM

---

i like to be private  
10/16/2013 7:29 PM

---

Yes. I like privacy and only sharing myself with my friends.  
10/16/2013 7:23 PM

---

yes i will restrict  
10/16/2013 7:15 PM

---

It is not important at the moment, but I see in the near future that that will change.  
10/16/2013 7:04 PM

---

Yes. I feel that one has to be very cautious in his approach to make his profile public.  
10/16/2013 6:08 PM

---

Yes, I don't want just anyone to be able to see my profile  
10/16/2013 5:42 PM

---

Yes, because I don't think everyone in the world needs to see my personal stuff.  
10/16/2013 5:27 PM

---

Yes, I do not want others copying my pictures or using them in any other fashion.  
10/16/2013 5:16 PM

---

Yes. I want to have more control over which parts of my profile content are public and which are friends-only.  
10/16/2013 5:04 PM

---

not really  
10/16/2013 4:34 PM

---

It is very important that information in my profile remains visible to friends only. I dont want anyone who isnt my friend to access the information in my profile.  
10/16/2013 4:33 PM

---

yes, i like to keep it simple and safe  
10/16/2013 4:25 PM

---

Yes you never know what kind of people might be looking at your stuff online and its mostly a safety issue with children.  
10/16/2013 4:22 PM

---

I do not want people that I do not know seeing my page because of privacy concerns and I do not like the feeling of being exposed to strangers.  
10/16/2013 4:21 PM

---

yes, because most of my posts are about my kids and most of my friends on facebook are close friends and family.  
10/16/2013 4:16 PM

---

No. I have a facebook account so people can look up my stuff.  
10/16/2013 4:14 PM

---

yes, they are generally family and can see pics of my other family  
10/16/2013 4:05 PM

---

Yes, I+d like for my profile to be visible only to my friend. I don't have to hide anything from my friends, but also I don't have any reason to open my private life to complete strangers.  
10/16/2013 4:04 PM

---

Yes. As I mentioned before, I've been stalked. I've also been a victim/witness to corporate/government wrongdoing and I know how the perpetrators can distort and misrepresent information.  
10/16/2013 4:03 PM

---

No, it is not important, because I have not divulged too much of information about myself in my Facebook profile.  
10/16/2013 3:48 PM

---

yes--now you have scared me. I am alone and afraid  
10/16/2013 3:38 PM

---

Yes, at least parts of it. I'd like my friends to see what I've been up to.  
10/16/2013 3:35 PM

---

yes I don't want people I don't know accessing my account and viewing my kids.  
10/16/2013 3:30 PM

---

A little.  
10/16/2013 3:28 PM

---

I have my account set so taht only friends see my posts but I am not stupid - the internet is a public place so I never post anything on facebook that i would be ashamed of if it was live to the world.

10/16/2013 3:21 PM

---

I only want my Facebook profile visible to friends because I only use Facebook to stay in contact with people I already know, not to make new friends or allow people to stalk my profile.

10/16/2013 3:12 PM

---

Yes, but I can't really say why.

10/16/2013 3:02 PM

---

Not really. As I dont post messages usually nor pics

10/16/2013 2:59 PM

---

No, I've nothing there to hide, and it's good if someone else is looking to contact me.

10/16/2013 2:53 PM

---

yes it is for friends only- I do not mix work with friends at all.

10/16/2013 2:44 PM

---

Yes, I do not want to share all of my info with strangers.

10/16/2013 2:42 PM

---

I allow friends of friends due to an ex wife and issues there...

10/16/2013 2:20 PM

---

Yes, I do not care to share my life or musings with anyone I am not friends with.

10/16/2013 2:16 PM

---

I feel that I am there for friends and family, and if I wanted to talk with anybody else, they would already be a friend on Facebook

10/16/2013 2:16 PM

---

I don't even have Facebook friends. I got rid of the profile that had my real name and now use a fictitious name just to play Facebook Scrabble.

10/16/2013 2:06 PM

---

I don't want spammers harassing me based on my profile

10/16/2013 2:03 PM

---

yes I do not want strangers to be able to see my daughter

10/16/2013 2:02 PM

---

no, it isn't the "real" me

10/16/2013 1:07 PM

---

## Interdependent Privacy on Facebook

**Q24 Do you have an idea about what interdependent privacy can mean with regard to Facebook? If so, please try to describe it below. Please do NOT use Google or any other search engine to find the answer. If you don't know the answer, just leave the field blank.**

Answered: 65 Skipped: 185

---

I'm not sure, but I assume that it means that you can independently decide the privacy settings for every content.  
11/7/2013 4:00 PM

---

That facebook can use the info in some cases  
11/7/2013 3:59 PM

---

no  
11/6/2013 12:35 PM

---

no idea  
11/6/2013 3:33 AM

---

No  
11/4/2013 10:52 PM

---

Interdependent privacy means relying on everyone to keep each others information secure.  
11/3/2013 7:00 PM

---

It means letting individuals have the say in what others can say or see on their Facebook timeline.  
10/30/2013 10:09 PM

---

No  
10/30/2013 5:00 PM

---

no idea  
10/30/2013 7:40 AM

---

yes it means hiding bad nature from parents friend etc  
10/29/2013 6:28 PM

---

My privacy can be affected by those I share with. Just because I make something private does not mean that my friends won't pass it along, making it no longer private.  
10/29/2013 5:15 PM

---

I think it means that my privacy in some respect is dependent on what others do.  
10/29/2013 2:40 PM

---

mutual privacy between two or more parties  
10/29/2013 1:14 AM

---

It is how your privacy is affected by the actions of others, such as Facebook friends.  
10/26/2013 1:21 AM

---

Not sure, but I guess it has something to do with you being able to selectively choose what you want who to see.  
10/25/2013 2:11 PM

---

I have no control over what info my friends share about me  
10/25/2013 2:02 PM

10/25/2013 1:51 PM

---

Haven't thought of it. My privacy setting isn't dependant upon my friends' privacy settings?

10/25/2013 12:59 PM

---

I have no idea about that

10/25/2013 10:27 AM

---

In fact, I have no idea

10/25/2013 5:01 AM

---

Basically your facebook privacy is only as good as how private you are. Even if you put your facebook on lock down, if you spill everything on it, people can see that potentially embarrassing event. On the other hand, if you actively force people to not upload those photos, or have them removed by facebook, you are maintaining that high level of privacy.

10/25/2013 4:51 AM

---

My privacy is governed by the privacy settings of my friends. If they keep information about me open it does not matter what I do.

10/24/2013 9:36 PM

---

The term per se could mean a lot. A few suggestions are: "Privacy dependent on the interaction between users" or "Privacy dependent on associated services".

10/24/2013 4:58 PM

---

Jepp, bur I dont want to spend time on typing here

10/24/2013 4:50 PM

---

I think it means that what is shown is sometimes dependent on what other people's privacy settings are, e.g. if they tag me in a picture.

10/24/2013 4:14 PM

---

uh, maybe that other peoples privacy settings affect what's shared about me?

10/24/2013 3:24 PM

---

No

10/24/2013 3:04 PM

---

Nope. I will for sure google it now.

10/24/2013 2:03 PM

---

I believe it means you have responsibility for your own privacy on Facebook. For instance you are responsible for checking your own privacy settings so that your profile is as private as you wish it to be

10/24/2013 1:16 PM

---

Beeing aware of how to mange privacy setting on Facebook, also the default privacy

10/24/2013 12:56 PM

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10/24/2013 11:12 AM

---

I have no idea on this matter.

10/23/2013 12:15 PM

---

I'm sure that big brother looks over my shoulder, so i am careful with which i publish

10/22/2013 5:09 PM

---

That your privacy is dependent on other people's privacy settings.

10/22/2013 12:48 PM

---

don't know

10/22/2013 12:27 PM

---

What others can do to your privacy if you "let them"?

10/22/2013 11:58 AM

---

I can re everything before it's being published to the world.

10/22/2013 11:32 AM

---

no

10/21/2013 10:08 PM

---

Privacy that is interdependent between friends?

10/21/2013 8:25 PM

---

I think it's when my picture is visible to only friends but then a friend of mine reshares it, so I have to rely on that friend to keep my stuff private too.

10/21/2013 5:20 PM

---

The settings which let people share each others data with world.

10/21/2013 8:34 AM

---

I guess it means how much you disclose about yourself while trying to maintain both your privacy but also keep in touch with others somehow...

10/19/2013 10:02 PM

---

I would image it relates to one person's privacy being compromised or supported by another user's privacy settings.

10/19/2013 8:06 PM

---

I think the idea is about keeping the privacy balanced at both ends, i.e., when I reveal something private of another user, he will be able to access my privacy area also.

10/19/2013 1:33 PM

---

No

10/18/2013 4:36 PM

---

My privacy depends on others

10/18/2013 2:52 AM

---

I think that means like when we use other sites to post things on Facebook, like when I buy something somewhere I might have the option to post what I bought.

10/18/2013 12:59 AM

---

No

10/17/2013 5:57 PM

---

It can reveal the relation between the user and his friends.

10/17/2013 5:22 AM

---

I think it is symbiotic relations that can occur among users, friends etc... that effects controlling privacy.

10/17/2013 5:18 AM

---

i think it means that whats shared with facebook friends will stay between them unless they want it made public

10/16/2013 9:46 PM

---

No

10/16/2013 8:17 PM

---

I would say it means it depends on what others would post or say about you, or give out your private things.

10/16/2013 8:04 PM

---

No

10/16/2013 8:03 PM

---

no

10/16/2013 7:29 PM

---

no i don't know

10/16/2013 7:15 PM

---

It's something about where someone else saying something (like Bob saying "Bob is at the restaurant with Mike") can reveal information about another person (in this case, that Mike is at the restaurant).

10/16/2013 5:05 PM

---

I think they are talking about a way that people would be able to manage their privacy while on facebook by an app that isn't a facebook app. What I am trying to say is I would be able to keep my privacy that other people might be saying or posting about me. Not really sure it was sort of hard to understand.

10/16/2013 4:27 PM

---

I think it means that people you allow to see things can also allow others to see it if they chose to, with or without your permission but I am not sure about this.

10/16/2013 4:22 PM

---

I have no idea what interdependent privacy means. It almost does not make sense to put those two words together. If you have privacy, it should not depend on another party to make it private. That defetes the whole purpose of "private".

10/16/2013 4:16 PM

---

That only Facebook can see my posts not other sites.

10/16/2013 3:30 PM

---

I think it has to do with other sites and apps allowing you to sign into or register for accounts using your facebook account. You would now have another set of privacy policies to re and how the two sites work together

10/16/2013 3:23 PM

---

The privacy, and level of privacy is up to the user, and not the company.

10/16/2013 2:54 PM

---

I believe Interdependent privacy is something that involves more than one source.

10/16/2013 2:16 PM

---

I would say there is no such thing as privacy on Facebook.

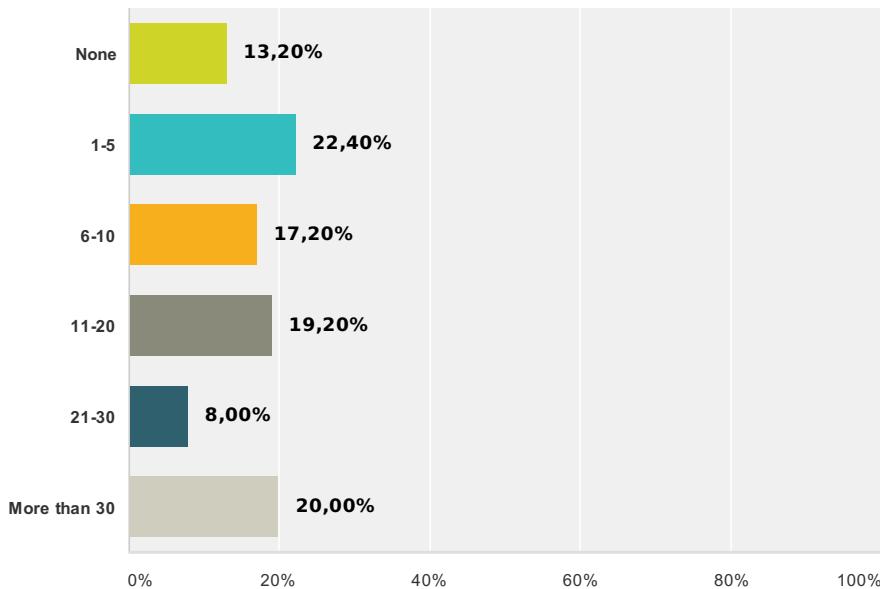
10/16/2013 2:06 PM

---

## Interdependent Privacy on Facebook

**Q25 Under the tab "Apps > Apps you use" in your Facebook settings, you can see the list of apps you use. How many apps do you use?**

Besvart: 250 Hoppet över: 0

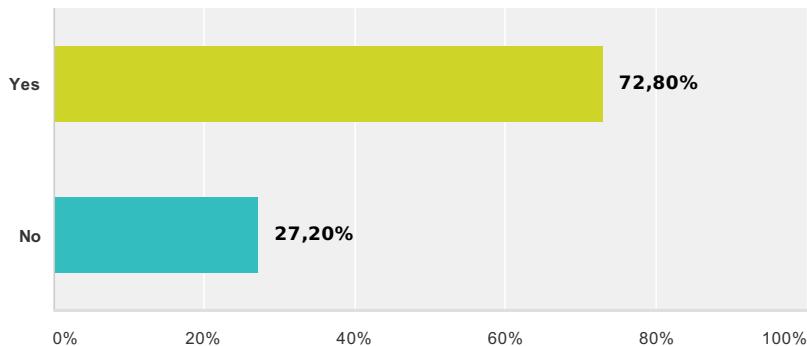


Svarvalg	Svar	
None	13,20%	33
1-5	22,40%	56
6-10	17,20%	43
11-20	19,20%	48
21-30	8%	20
More than 30	20%	50
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

**Q26 Are you aware of the fact that ALL apps you install on Facebook have access to your basic information, including the list of your friends?**

Besvart: 250 Hoppet över: 0

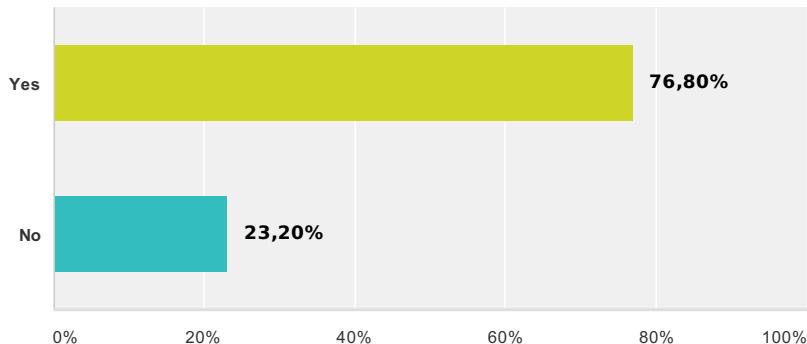


Svarvalg	Svar	
Yes	72,80%	182
No	27,20%	68
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

**Q27 Did you know that A SIGNIFICANT PORTION of Facebook apps you install can post information on your behalf to your and your friends' timeline? (E.g., Spotify posts songs you have listened to.)**

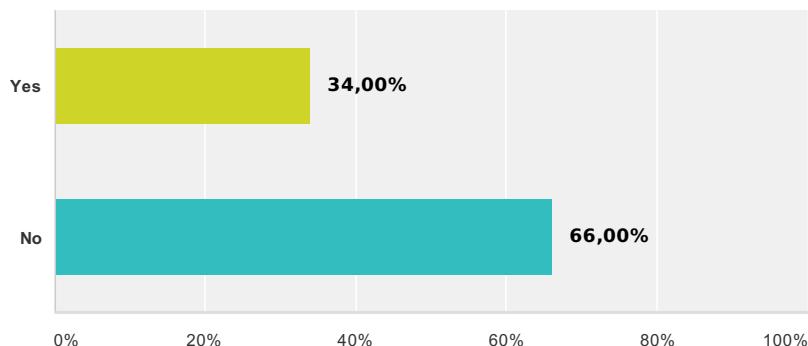
Besvart: 250 Hoppet över: 0



## Interdependent Privacy on Facebook

**Q28 Did you know that SOME Facebook apps you install have access to your friends' private information, such as religious view, interests or relationships?**

Besvart: 250 Hoppet över: 0

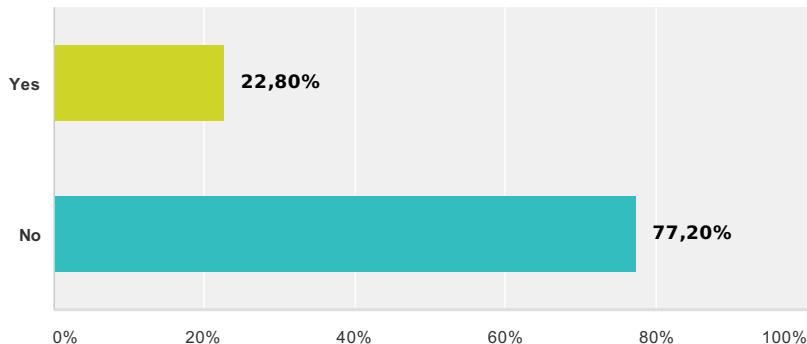


Svarvalg	Svar	
Yes	34%	85
No	66%	165
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

**Q29 Did you know that SOME Facebook apps you install have access to relational information, such as private chat messages and joint events between you and your friends?**

Besvart: 250 Hoppet över: 0

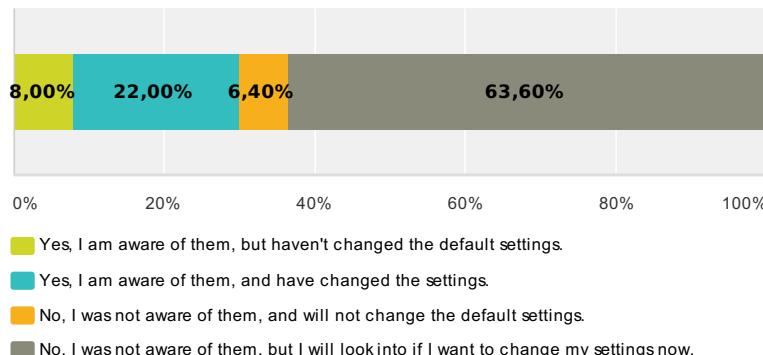


Svarvalg	Svar	
Yes	22,80%	57
No	77,20%	193
<b>Totalt</b>		<b>250</b>

## Interdependent Privacy on Facebook

**Q30 In order to avoid that apps used by your friends can access your personal information, you can edit the settings under the tab "Apps > Apps others use" in your Facebook settings. Have you been aware of these settings?**

Besvart: 250 Hoppet över: 0



Svarvalg	Svar	
Yes, I am aware of them, but haven't changed the default settings.	8%	20
Yes, I am aware of them, and have changed the settings.	22%	55
No, I was not aware of them, and will not change the default settings.	6,40%	16
No, I was not aware of them, but I will look into if I want to change my settings now.	63,60%	159
<b>Totalt</b>		<b>250</b>

**Q31 After answering the last few questions about privacy issues regarding Facebook apps, do you have an idea about what interdependent privacy means with regard to Facebook? If so, please try to describe it below. Please do NOT use Google or any other search engine to find the answer. If you don't know the answer, just leave the field blank.**

Answered: 118 Skipped: 132

---

same

11/7/2013 4:01 PM

---

no

11/6/2013 12:37 PM

---

no idea

11/6/2013 3:35 AM

My privacy setting depends also on other users, with the help of apps. I think this is what interdependent privacy means.

11/5/2013 12:45 PM

---

No

11/4/2013 10:53 PM

Interdependent privacy probably means that the more private everyone's settings are, the more we will be able to keep information to ourselves.

11/4/2013 10:04 PM

---

My privacy isn't only on my own profile - my friends privacy settings can affect my info.

11/3/2013 9:17 PM

---

Interdependent privacy means relying on friends to keep everyone's information private.

11/3/2013 7:02 PM

---

Maybe other apps can take information from your friends without their knowing.

11/2/2013 8:42 PM

---

Means people can view your stuff through apps, I think.

10/31/2013 10:54 PM

---

The separation of third party apps and personal information on Facebook.

10/31/2013 4:49 AM

---

It means that your privacy should be free from snooping from apps that your friends use.

10/30/2013 10:11 PM

---

Independent privacy is my privacy that I control who sees it.

10/30/2013 6:30 PM

---

no i don't

10/30/2013 7:41 AM

---

not real privacy

10/30/2013 3:04 AM

---

enable privacy for unknown person

10/29/2013 6:30 PM

You are not the only person in control of your privacy. If you don't use the right settings, other people can share information you think is private.

10/29/2013 5:17 PM

---

I believe it means how private my information is when it comes to people on my friends lists.

10/29/2013 3:08 PM

---

my privacy based on my friends settings.

10/29/2013 2:54 PM

---

I think it stops outside apps from getting into your stuff

10/29/2013 2:43 PM

---

As stated before, my privacy is dependent to some degree on the facebook activity of others.

10/29/2013 2:43 PM

---

apps having access to your friends information.

10/29/2013 2:22 PM

---

Privacy on Facebook depends on friends' settings.

10/29/2013 1:06 PM

---

It means that other people are gateways to your privacy, and by giving access to them, they can pass it on.

10/29/2013 6:17 AM

---

privacy in regard to yourself and a third party

10/29/2013 1:17 AM

---

It seems to be privacy independent from privacy settings. It appears apps can override general privacy settings

10/29/2013 12:39 AM

---

Privacy is dependent on the settings you customize

10/28/2013 4:32 PM

---

It means privacy in relation to others and access through others in order to gain my private information.

10/28/2013 4:28 PM

---

Who can see and take usage of my private information. May change from app to app

10/27/2013 12:07 PM

---

maybe that privacy on FB depends on the access level you allow to other ENTITIES including people, corporations, etc.? I don't know still.

10/27/2013 2:36 AM

---

Yes, it means that your own private information can be shared with your friends.

10/27/2013 2:05 AM

---

My friends privacy may depend on my settings and permissions I give to apps.

10/27/2013 2:53 AM

---

It could mean that the thing that you install yourself could gain access to your information.

10/27/2013 2:49 AM

---

I'm not quite sure but I think it means how much privacy you have depends on not only your own settings but also your friends settings.

10/27/2013 2:27 AM

---

It is how the action of other people can affect your privacy.

10/26/2013 1:23 AM

---

Yes. I think it means users are dependent on each other's privacy settings as Facebook has settings that reveal information about your friends to 3rd parties like apps.

10/25/2013 2:18 PM

---

privacy dependent on other things like friends settings, app settings  
10/25/2013 1:15 PM

---

I think I was quite close?  
10/25/2013 1:04 PM

---

No, still don't have a clear idea  
10/25/2013 10:28 AM

---

Basically your privacy is based upon what you do. Certain things can bypass your privacy, and get ahold of private information without your consent, even with high facebook security settings.  
10/25/2013 4:52 AM

---

I think it means privacy even from settings or apps you don't change yourself?  
10/25/2013 4:24 AM

---

That different apps and websites have access to my private settings  
10/25/2013 4:13 AM

---

See previous answer to question.  
10/24/2013 9:39 PM

---

Jepp  
10/24/2013 5:02 PM

---

my privacy being invaded because of others bad choices  
10/24/2013 5:02 PM

---

See previous answer.  
10/24/2013 5:00 PM

---

Sometimes things are made public about me because of apps etc that my friends have installed.  
10/24/2013 4:16 PM

---

the same as in previous question about this  
10/24/2013 3:27 PM

---

What apps I don't use can see on my profile.  
10/24/2013 3:09 PM

---

That it's obv. not only facebook who can access my privacy settings, that this so called privacy is interdependent and I am in charge of setting those settings myself if I don't want it to be that interdependent.  
10/24/2013 2:06 PM

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\*

10/24/2013 1:51 PM

---

privacy settings that people can customize inside facebook.  
10/24/2013 1:46 PM

---

That your privacy is dependent upon other peoples settings  
10/24/2013 1:45 PM

---

Beeing aware of managing the privacy and know what people can see if you don't do anything about it  
10/24/2013 12:58 PM

---

I presume it has to do with the privacy of the information that you have access to about your friends  
10/24/2013 12:37 PM

---

Something about taking information from someone else's profile to get information. I explained that horribly.  
10/23/2013 7:50 PM

---

I can't really say what that means exactly.

10/23/2013 12:17 PM

---

I believe it has to do with apps having access to your personal information and your friend's personal information.

10/22/2013 8:09 PM

---

At det lissom ikke er nok at du årner dine privacy-settings, alle andre løker du kjenner må også årne sine.

10/22/2013 7:55 PM

---

I have my privicy and do not allow Facebook to fickle with that

10/22/2013 5:17 PM

---

Privacy settings can vary depending on the app you use

10/22/2013 4:33 PM

---

Kan tenke meg det henger sammen med at andre kan få tilgang på opplysninger om deg uten at opplysningene nødvendigvis kommer direkte fra deg

10/22/2013 3:11 PM

---

That a lot of my personal information can be shared by my friends, if both our settings are not set up correctly.

10/22/2013 12:54 PM

---

My privacy depend on others settings

10/22/2013 12:37 PM

---

How your connections have an impact on your privacy?

10/22/2013 12:20 PM

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Yes. what concerns your privacy that you dont know of, that your friends do to your privacy ish

10/22/2013 12:00 PM

---

Same as before

10/22/2013 11:36 AM

---

even if you have restricted privacy, your friends apps can acces some of your information.

10/22/2013 11:34 AM

---

no

10/21/2013 10:11 PM

---

How apps you've installed can get around the Facebook privacy settings.

10/21/2013 8:46 PM

---

Privacy settings of facebook dependant apps

10/21/2013 8:15 PM

---

I think I was close to right. Relying on others' settings to keep my privacy.

10/21/2013 5:21 PM

---

I believe that it means to allow information to be let out without having knowledge of doing it.

10/21/2013 3:31 PM

---

How my personal information can be shared by my friends with 3rd party apps and people.

10/21/2013 8:42 AM

---

That others can access my privace info via their apps and vice versa

10/20/2013 2:51 PM

---

It means that you inadvertently disclose other people's private information! So I should delete everyone who uses apps? :)

10/19/2013 10:03 PM

---

Yes, I understand what it means now. If a friend of mine permits an app to access their info then they have a certain amount of access to my info.

10/19/2013 8:11 PM

---

Interdependent privacy is related to the control of use of apps that can access not only my personal and private information, but my friends and chats with them as well.

10/19/2013 1:39 PM

---

The possibility of apps to collect information through friends list and personal information.

10/18/2013 11:54 PM

---

that apps I put on my FB page can access my friend's accounts, information and activities. I am always very careful to select "ONLY ME" when they ask whose wall they can post to - but I wasn't aware that apps were independently able to access the information of my friends without my consent.

10/18/2013 11:12 PM

---

Yes, the privacy and accessibility of account or security.

10/18/2013 9:26 PM

---

Yes, I can restrict and avoid some applications in Face Book to avoid publishing my personal information.

10/18/2013 4:53 PM

---

The apps are allowing people to see things that are private. It's interdependent on FB

10/18/2013 2:55 AM

---

If im using the app it respects my privacy but not of my friends

10/18/2013 2:47 AM

---

Privacy settings related to apps that are used on Facebook.

10/18/2013 1:01 AM

---

Getting access through games and friends.

10/17/2013 5:59 PM

---

that other apps have access to your private information

10/17/2013 7:07 AM

---

It can reveal the relation between the user and his friends.

10/17/2013 5:23 AM

---

Yes, and I feel the answer I gave a moment ago is fairly close to this.

10/17/2013 5:20 AM

---

In a sense, we're interconnected with others (or forced to be), so in reality, we have no true "privacy" on Facebook. It seems the purpose of Facebook is not to be an independent entity, but a shared resource, so to speak.

10/17/2013 2:20 AM

---

privacy dealing with myself and my friends

10/17/2013 1:58 AM

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its prolly different than i thought

10/16/2013 9:49 PM

---

I'm guessing it means that outside sources and apps on Facebook can assess my information if I let them.

10/16/2013 8:53 PM

---

It means people getting your info through the apps that others may use.

10/16/2013 8:29 PM

---

You can control what you share, but not what others do or say that may infringe on your privacy.

10/16/2013 8:07 PM

---

No

10/16/2013 8:04 PM

---

That your friends' settings can affect your privacy and vice versa  
10/16/2013 7:53 PM

---

It looks like facebook friends and their app and other choices can have a direct effect on my facebook privacy.  
10/16/2013 7:44 PM

---

I think that it means that the apps that I use can have an effect on my friends privacy.  
10/16/2013 7:42 PM

---

That certain apps have access to all mine and my friends info  
10/16/2013 7:30 PM

---

You have to rely on facebook to keep your privacy, you don't have full control of it.  
10/16/2013 7:25 PM

---

no i do not  
10/16/2013 7:16 PM

---

Maybe it's: Facebook taking other people's info based on something I do.  
10/16/2013 5:07 PM

---

I think it means I can use this app to stop other apps or people who might add these apps to my personal information.  
10/16/2013 4:29 PM

---

I think that it means if you give an app permission to use your information, the app can then use the information in any way it wants to. This is why I do not use any apps because I do not trust them period.  
10/16/2013 4:23 PM

---

Hmn. I guess it makes sense now, seeing that apps can do that to people who are friends.  
10/16/2013 4:19 PM

---

It must be connected to apps I use and my friends use -- others may have access to my personal information or activities if I have an app installed, or if friends do.  
10/16/2013 4:06 PM

---

It means Facebook is sharing everything about me with everyone else  
10/16/2013 3:42 PM

---

Privacy in regards to third party applications  
10/16/2013 3:37 PM

---

Apps you use can disregard your privacy settings with facebook and play by their own rules - so I have to be much more diligent  
10/16/2013 3:25 PM

---

I guess it has to do with facebook apps accessing information on facebook?  
10/16/2013 3:03 PM

---

That it is not just your privacy shared but your friends privacy  
10/16/2013 3:02 PM

---

Maybe it is in regard to one privacy setting changing, or depending on, another.  
10/16/2013 2:57 PM

---

I would guess that it means that if you agree to using an app or a download then all privacy goes out the window  
10/16/2013 2:46 PM

---

It means the privacy between friends on Facebook.  
10/16/2013 2:43 PM

---

I'm thinking it's ways that different applications work with each other for privacy or against privacy.

10/16/2013 2:28 PM

---

I don't believe there is privacy with Facebook.

10/16/2013 2:08 PM

---

The amount of information third party apps have regarding networks of connections on Facebook

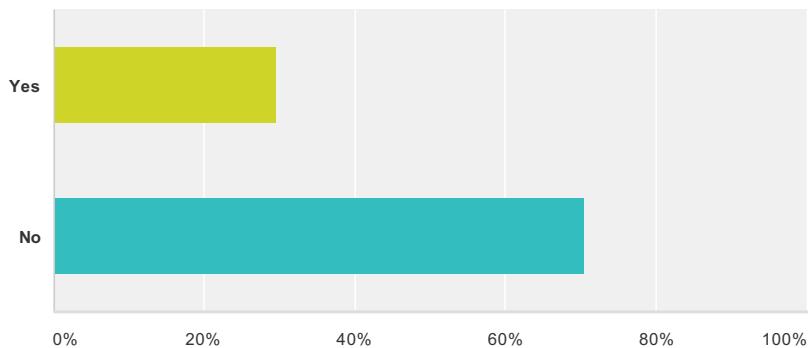
10/16/2013 2:05 PM

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## Interdependent Privacy on Facebook

### Q32 Are you afraid that someone will hack into your Facebook account?

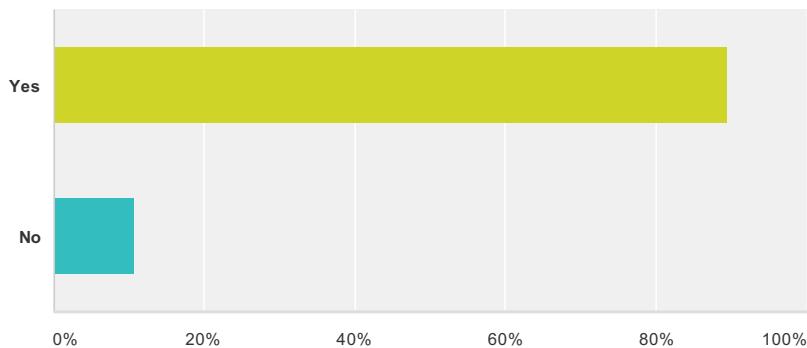
Besvart: 250 Hoppet över: 0



## Interdependent Privacy on Facebook

### Q33 Are you using secure browsing (https://) when using Facebook?

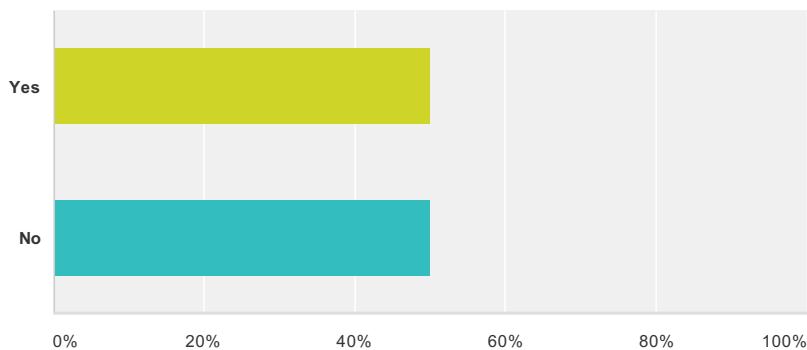
Besvart: 250 Hoppet över: 0



## Interdependent Privacy on Facebook

**Q34 Are you using login notification  
(receiving an email or text message when  
you log on with a new browser or device)?**

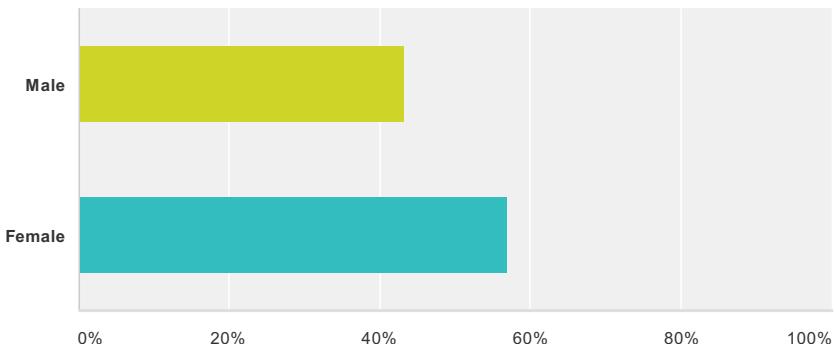
Besvart: 250 Hoppet över: 0



# Interdependent Privacy on Facebook

## Q35 What is your gender?

Besvart: 250 Hoppet över: 0



Svarvalg	Svar	
Male	43,20%	108
Female	56,80%	142
Totalt		250

# Interdependent Privacy on Facebook

## Q36 What is your age?

Answered: 250 Skipped: 0

23 11/7/2013 6:40 PM	23 11/2/2013 8:04 PM	24 10/29/2013 6:31 PM
24 11/7/2013 4:04 PM	41 11/2/2013 4:17 PM	30 10/29/2013 5:17 PM
24 11/7/2013 4:02 PM	24 11/1/2013 1:21 PM	21 10/29/2013 5:14 PM
26 11/7/2013 3:52 PM	36 11/1/2013 8:51 AM	30 10/29/2013 4:02 PM
27 11/7/2013 3:39 PM	52 11/1/2013 12:07 AM	35 10/29/2013 3:16 PM
26 11/6/2013 12:37 PM	30 10/31/2013 10:56 PM	32 10/29/2013 3:09 PM
35 11/6/2013 11:31 AM	37 10/31/2013 2:43 PM	32 10/29/2013 2:55 PM
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32 11/3/2013 9:18 PM	33 10/30/2013 7:41 AM	29 10/29/2013 6:17 AM
41 11/3/2013 7:03 PM	24 10/30/2013 3:56 AM	25 10/29/2013 1:18 AM
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24 11/2/2013 8:43 PM	23 10/30/2013 2:51 AM	23 10/28/2013 9:02 PM

61	10/28/2013 7:15 PM	24	10/25/2013 2:47 PM	25	10/24/2013 9:39 PM
44	10/28/2013 4:33 PM	43	10/25/2013 2:19 PM	29	10/24/2013 5:11 PM
31	10/28/2013 4:29 PM	28	10/25/2013 2:13 PM	39	10/24/2013 5:04 PM
29	10/28/2013 2:13 PM	27	10/25/2013 2:13 PM	23	10/24/2013 5:02 PM
21	10/27/2013 10:53 PM	29	10/25/2013 2:05 PM	23	10/24/2013 4:46 PM
26	10/27/2013 12:08 PM	25	10/25/2013 2:00 PM	30	10/24/2013 4:28 PM
21	10/27/2013 7:52 AM	24	10/25/2013 1:55 PM	25	10/24/2013 4:17 PM
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20	10/22/2013 12:47 PM	30	10/21/2013 11:49 AM	43	10/18/2013 1:02 AM
25	10/22/2013 12:38 PM	29	10/21/2013 8:43 AM	49	10/17/2013 7:55 PM

27	36	37
10/17/2013 6:30 PM	10/16/2013 7:54 PM	10/16/2013 4:24 PM
55	37	34
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34	44	26
10/17/2013 3:44 PM	10/16/2013 7:45 PM	10/16/2013 4:19 PM
22	29	36
10/17/2013 12:59 PM	10/16/2013 7:43 PM	10/16/2013 4:09 PM
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49	28	34
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10/16/2013 8:19 PM	10/16/2013 4:36 PM	10/16/2013 2:44 PM
37	31	47
10/16/2013 8:09 PM	10/16/2013 4:34 PM	10/16/2013 2:29 PM
21	58	32
10/16/2013 8:04 PM	10/16/2013 4:30 PM	10/16/2013 2:26 PM
23	62	40
10/16/2013 8:03 PM	10/16/2013 4:27 PM	10/16/2013 2:22 PM

**52**

10/16/2013 2:09 PM

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**29**

10/16/2013 2:05 PM

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**34**

10/16/2013 2:04 PM

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**76**

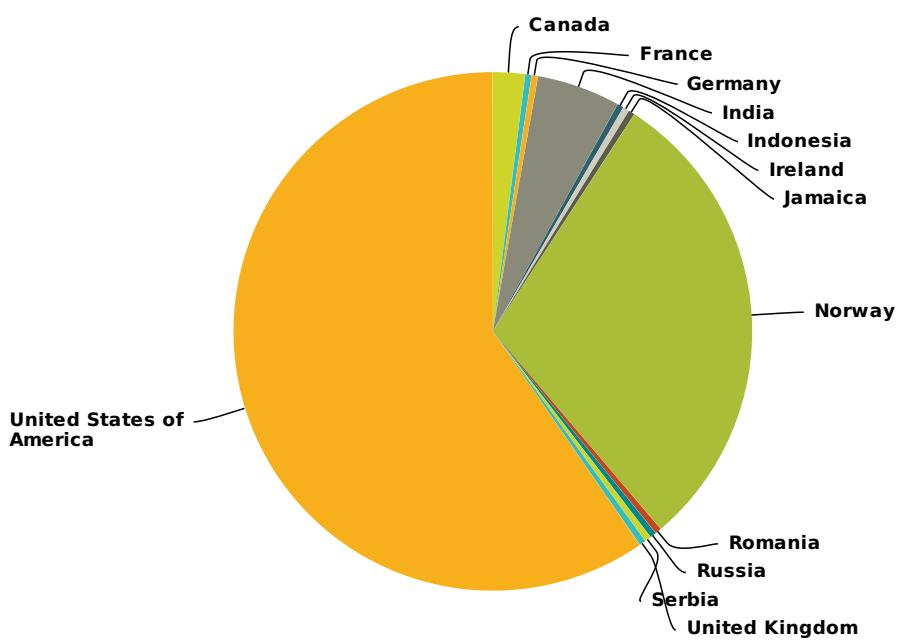
10/16/2013 1:11 PM

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**Q37 Which country are you from?**

Besvart: 250 Hoppet över: 0

## Interdependent Privacy on Facebook



## Interdependent Privacy on Facebook

Svarvalg	Svar	
Afghanistan	0%	0
Albania	0%	0
Algeria	0%	0
Andorra	0%	0
Angola	0%	0
Antigua & Barbuda	0%	0
Argentina	0%	0
Armenia	0%	0
Australia	0%	0
Austria	0%	0
Azerbaijan	0%	0
Bahamas	0%	0
Bahrain	0%	0
Bangladesh	0%	0
Barbados	0%	0
Belarus	0%	0
Belgium	0%	0
Belize	0%	0

## Interdependent Privacy on Facebook

Benin	0%	0
Bhutan	0%	0
Bolivia	0%	0
Bosnia & Herzegovina	0%	0
Botswana	0%	0
Brazil	0%	0
Brunei	0%	0
Bulgaria	0%	0
Burkina Faso	0%	0
Burundi	0%	0
Cambodia	0%	0
Cameroon	0%	0
Canada	2%	5
Cape Verde	0%	0
Central African Republic	0%	0
Chad	0%	0
Chile	0%	0
China	0%	0
Colombia	0%	0
Comoros	0%	0
Congo	0%	0
Congo Democratic Republic of	0%	0
Costa Rica	0%	0
Cote d'Ivoire	0%	0
Croatia	0%	0
Cuba	0%	0
Cyprus	0%	0
Czech Republic	0%	0
Denmark	0%	0
Djibouti	0%	0
Dominica	0%	0
Dominican Republic	0%	0
Ecuador	0%	0
East Timor	0%	0
Egypt	0%	0

## Interdependent Privacy on Facebook

El Salvador	0%	0
Equatorial Guinea	0%	0
Eritrea	0%	0
Estonia	0%	0
Ethiopia	0%	0
Fiji	0%	0
Finland	0%	0
France	0,40%	1
Gabon	0%	0
Gambia	0%	0
Georgia	0%	0
Germany	0,40%	1
Ghana	0%	0
Greece	0%	0
Grenada	0%	0
Guatemala	0%	0
Guinea	0%	0
Guinea-Bissau	0%	0
Guyana	0%	0
Haiti	0%	0
Honduras	0%	0
Hungary	0%	0
Iceland	0%	0
India	5,20%	13
Indonesia	0,40%	1
Iran	0%	0
Iraq	0%	0
Ireland	0,40%	1
Israel	0%	0
Italy	0%	0
Jamaica	0,40%	1
Japan	0%	0
Jordan	0%	0
Kazakhstan	0%	0
Kenya	0%	0

## Interdependent Privacy on Facebook

Kiribati	0%	0
Korea North	0%	0
Korea South	0%	0
Kosovo	0%	0
Kuwait	0%	0
Kyrgyzstan	0%	0
Laos	0%	0
Latvia	0%	0
Lebanon	0%	0
Lesotho	0%	0
Liberia	0%	0
Libya	0%	0
Liechtenstein	0%	0
Lithuania	0%	0
Luxembourg	0%	0
Macedonia	0%	0
Madagascar	0%	0
Malawi	0%	0
Malaysia	0%	0
Maldives	0%	0
Mali	0%	0
Malta	0%	0
Marshall Islands	0%	0
Mauritania	0%	0
Mauritius	0%	0
Mexico	0%	0
Micronesia	0%	0
Moldova	0%	0
Monaco	0%	0
Mongolia	0%	0
Montenegro	0%	0
Morocco	0%	0
Mozambique	0%	0
Myanmar (Burma)	0%	0
Namibia	0%	0

## Interdependent Privacy on Facebook

Nauru	<b>0%</b>	0
Nepal	<b>0%</b>	0
The Netherlands	<b>0%</b>	0
New Zealand	<b>0%</b>	0
Nicaragua	<b>0%</b>	0
Niger	<b>0%</b>	0
Nigeria	<b>0%</b>	0
Norway	<b>29,60%</b>	74
Oman	<b>0%</b>	0
Pakistan	<b>0%</b>	0
Palau	<b>0%</b>	0
Palestinian State*	<b>0%</b>	0
Panama	<b>0%</b>	0
Papua New Guinea	<b>0%</b>	0
Paraguay	<b>0%</b>	0
Peru	<b>0%</b>	0
The Philippines	<b>0%</b>	0
Poland	<b>0%</b>	0
Portugal	<b>0%</b>	0
Qatar	<b>0%</b>	0
Romania	<b>0,40%</b>	1
Russia	<b>0,40%</b>	1
Rwanda	<b>0%</b>	0
St. Kitts & Nevis	<b>0%</b>	0
St. Lucia	<b>0%</b>	0
St. Vincent & The Grenadines	<b>0%</b>	0
Samoa	<b>0%</b>	0
San Marino	<b>0%</b>	0
Sao Tome & Principe	<b>0%</b>	0
Saudi Arabia	<b>0%</b>	0
Senegal	<b>0%</b>	0
Serbia	<b>0,40%</b>	1
Seychelles	<b>0%</b>	0
Sierra Leone	<b>0%</b>	0
Singapore	<b>0%</b>	0

## Interdependent Privacy on Facebook

Slovakia	0%	0
Slovenia	0%	0
Solomon Islands	0%	0
Somalia	0%	0
South Africa	0%	0
South Sudan	0%	0
Spain	0%	0
Sri Lanka	0%	0
Sudan	0%	0
Suriname	0%	0
Swaziland	0%	0
Sweden	0%	0
Switzerland	0%	0
Syria	0%	0
Taiwan	0%	0
Tajikistan	0%	0
Tanzania	0%	0
Thailand	0%	0
Togo	0%	0
Tonga	0%	0
Trinidad & Tobago	0%	0
Tunisia	0%	0
Turkey	0%	0
Turkmenistan	0%	0
Tuvalu	0%	0
Uganda	0%	0
Ukraine	0%	0
United Arab Emirates	0%	0
United Kingdom	0,40%	1
United States of America	59,60%	149
Uruguay	0%	0
Uzbekistan	0%	0
Vanuatu	0%	0
Vatican City (Holy See)	0%	0
Venezuela	0%	0

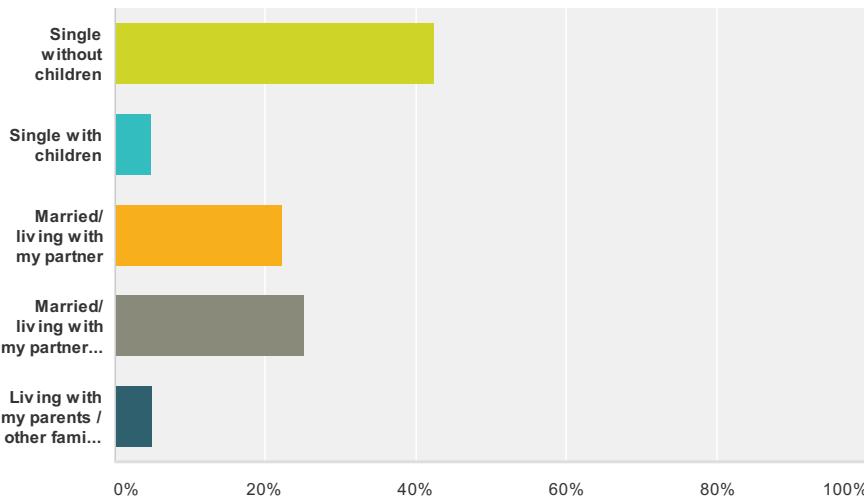
### Interdependent Privacy on Facebook

Vietnam	0%	0
Yemen	0%	0
Zambia	0%	0
Zimbabwe	0%	0
<b>Total</b>		<b>250</b>

## Interdependent Privacy on Facebook

### Q38 What is your current family situation?

Besvart: 250 Hoppet över: 0

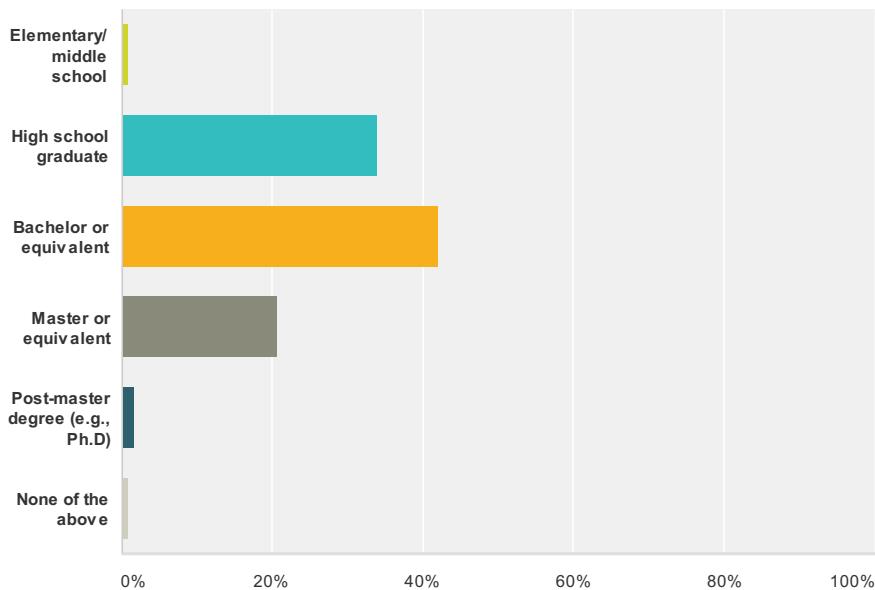


Svarvalg	Svar
Single without children	42,40% 106
Single with children	4,80% 12
Married/ living with my partner	22,40% 56
Married/ living with my partner, and with children	25,20% 63
Living with my parents / other family / friends	5,20% 13
<b>Totalt</b>	<b>250</b>

## Interdependent Privacy on Facebook

### Q39 What is your highest qualification/degree?

Besvart: 250 Hoppet över: 0

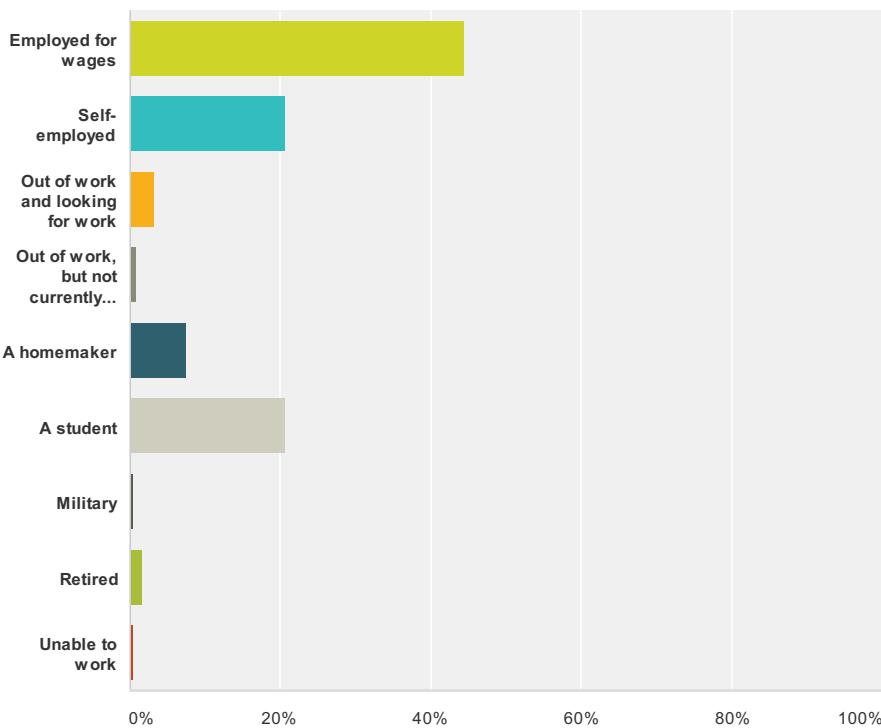


Svarvalg	Svar	
Elementary/ middle school	0,80%	2
High school graduate	34%	85
Bachelor or equivalent	42%	105
Master or equivalent	20,80%	52
Post-master degree (e.g., Ph.D)	1,60%	4
None of the above	0,80%	2
<b>Totalt</b>		<b>250</b>

# Interdependent Privacy on Facebook

## Q40 What is your employment status?

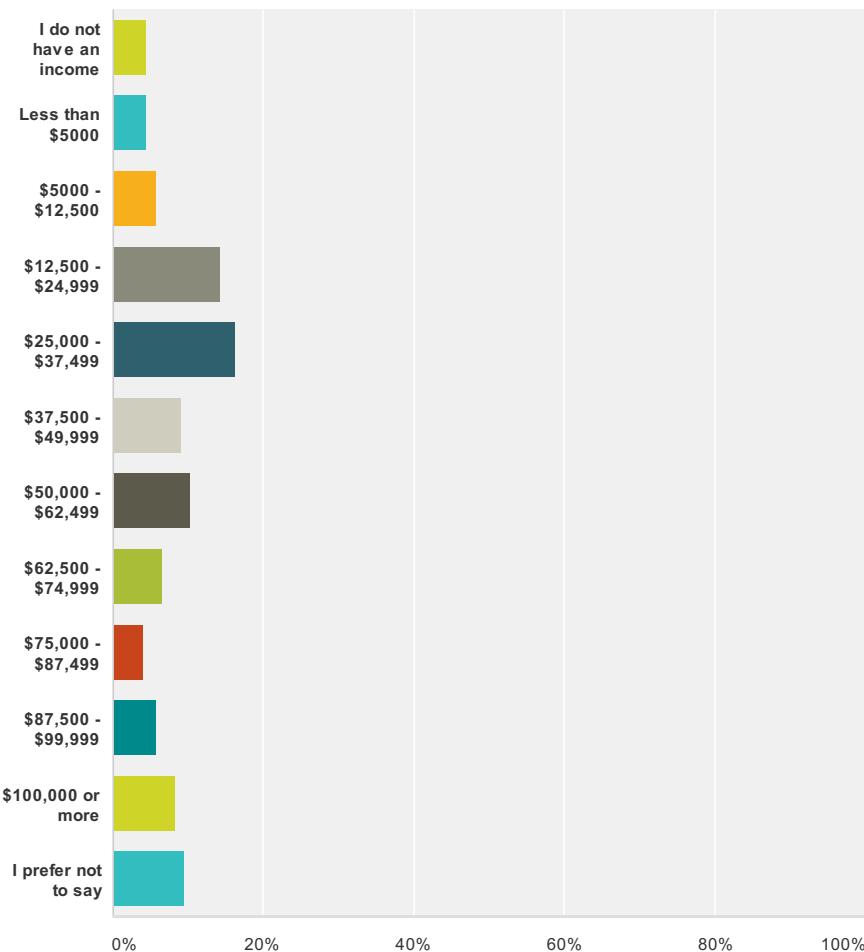
Besvarat: 250 Hoppet över: 0



## Interdependent Privacy on Facebook

### Q41 What is the total income of your household per year?

Besvart: 250 Hoppet över: 0



Svarvalg	Svar	
I do not have an income	4,40%	11
Less than \$5000	4,40%	11
\$5000 - \$12,500	6%	15
\$12,500 - \$24,999	14,40%	36
\$25,000 - \$37,499	16,40%	41
\$37,500 - \$49,999	9,20%	23
\$50,000 - \$62,499	10,40%	26
\$62,500 - \$74,999	4,40%	17

### Interdependent Privacy on Facebook

\$75,000 - \$87,499	4%	10
\$87,500 - \$99,999	6%	15
\$100,000 or more	8,40%	21
I prefer not to say	9,60%	24
<b>Total</b>		<b>250</b>