

IRTF RG  
Human Rights Protocol Considerations  
(hrpc)

IETF 95  
Tuesday April 4 2016  
17:40 – 19:40

Co-Chairs:  
Niels ten Oever – Article19  
Avri Doria – APC

# Administrivia

## Mailinglist

- <https://www.irtf.org/mailman/listinfo/hrpc>

## Github

- <https://github.com/nllz/IRTF-HRPC>

- Meetecho

<http://www.meetecho.com/ietf95/hrpc>

- Minutes

<http://etherpad.tools.ietf.org:9000/p/notes-ietf-95-hrpc>

- Intro website

<https://hrpc.io>

# Agenda

- Beginning (5 min) ( Jabber scribe, note takers, Agenda Bashing, Notewell, Introduction)
- Status of research group (5 min)
- Context of research (5 mins)
- Discussion introduction website <https://hrpc.io> (5 mins)
- Presentation + Q&A - Ramsey Nasser on `kalbe' [قلب] a programming language entirely written in Arabic and the issues he came across while developing this (15 mins)
- ~~Presentation + Q&A Geoffrey Bowker on Values in Design and difficulties surrounding engineering for social values (15 mins)~~
- Presentation + Q&A - Nick Doty on privacy adoption in Internet and web standard setting, and how this could be applied in developing human rights guidelines (15 mins)
- Discussion of **research draft**, including first version of considerations (15 mins)
- Discussion of **report draft** (15 mins)
- Discussion of **censorship draft** (10 mins)
- Open discussion other drafts, papers, ideas (15 min)
- Next steps (5 min)
- AOB

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# Status of proposed research group

- October, 27, 2014 - Publication of [Proposal for research on human rights protocol consideration](#)
- IETF91 - November, 13, 2014: Presentation during [saag session](#)
- March 9, 2015 - Publication of [Proposal for research on human rights protocol considerations - 01](#)
- January 2015 - Proposed research group in the IRTF
- IETF92 - March 22 to 27, 2015 – Session & Interviews with members from the community
- June 2015 - Interim Meeting
- July 2015 - Publication of [Methodology](#) and [Glossary](#) drafts
- IETF93 - July 2015 – Session
- IETF94 November 2015 – Screening of film Net of Rights, updates of [Glossary](#), [Methodology](#), [Report](#) drafts, [Users draft](#), [paper](#), [session](#)
- December 2015 – Research Group chartered
- IETF95 April 2016 – Session, new [Research draft](#), updated [Report](#) and [Censorship](#) draft,

# Context of research (i)

- Internet as tool for freedom of expression and freedom of association
  - By intention or by coincidence?
    - The Internet aims to be the global network of networks that provides unfettered connectivity to all users at all times and for any content. (RFC1958)
- But as the scale and the industrialization of the Internet has grown greatly, the influence of such world-views started to compete with other values.
- The starting assumption of the RG is that as the Internet continues to grow, the linkage of Internet protocols to human rights needs to become explicit, structured, and intentional

# Context of research (ii)

Alvestrand

Best Current Practice

[Page 3]

RFC 3935

IETF Mission Statement

October 2004

(Another step is to choose leaders that we trust to exercise their good judgement and do the right thing. But we're already trying to do that.)

## 4. Issues with Scoping the IETF's Mission

### 4.1. The Scope of the Internet

A very difficult issue in discussing the IETF's mission has been the scope of the term "for the Internet". The Internet is used for many things, many of which the IETF community has neither interest nor competence in making standards for.

The Internet isn't value-neutral, and neither is the IETF. We want the Internet to be useful for communities that share our commitment to openness and fairness. We embrace technical concepts such as decentralized control, edge-user empowerment and sharing of resources, because those concepts resonate with the core values of the IETF community. These concepts have little to do with the technology that's possible, and much to do with the technology that we choose to create.

# Context of the Research (iii)

Working on this problem in the IRTF (in context of IETF), because this is where the protocols and standards that have shaped and are shaping the Internet are being developed

This proposed RG has two major aims:

- to expose the relation between protocols and human rights, with a focus on the rights to freedom of expression and freedom of assembly, and
- to propose guidelines to protect the Internet as a human-rights-enabling environment in future protocol development, in a manner similar to the work done for Privacy Considerations in RFC 6973. This research group suggests that similar considerations may apply for other human rights such as freedom of expression or freedom of association.

# Introduction website <https://hrpc.io>

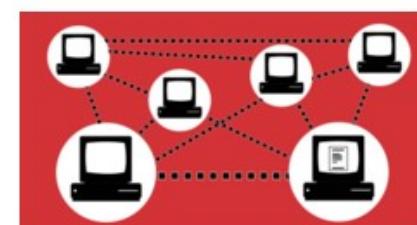


## Human Rights Research Group

Research Group

### Our work

The Human Rights Protocol Considerations Research Group in the [IRTF](#) is chartered to research whether standards and protocols can enable, strengthen or threaten human rights, as defined in the **Universal Declaration of Human Rights (UDHR)** and the **International Covenant on Civil and Political Rights (ICCPR)**, specifically, but not limited to the right to freedom of expression and the right to freedom of



**Can Internet Protocols affect Human Rights?**  
Watch and Read more about the short documentary film *Net of Rights.* →

**HRPC**

Ramsey Nasser

<http://nas.sr/>

@ra







**ART + TECHNOLOGY CENTER**

**قلب: لغة برمجة**

قلب: لغة برمجة - مترجم ٣،١،٠  
رمزي ناصير ٢٠١٢

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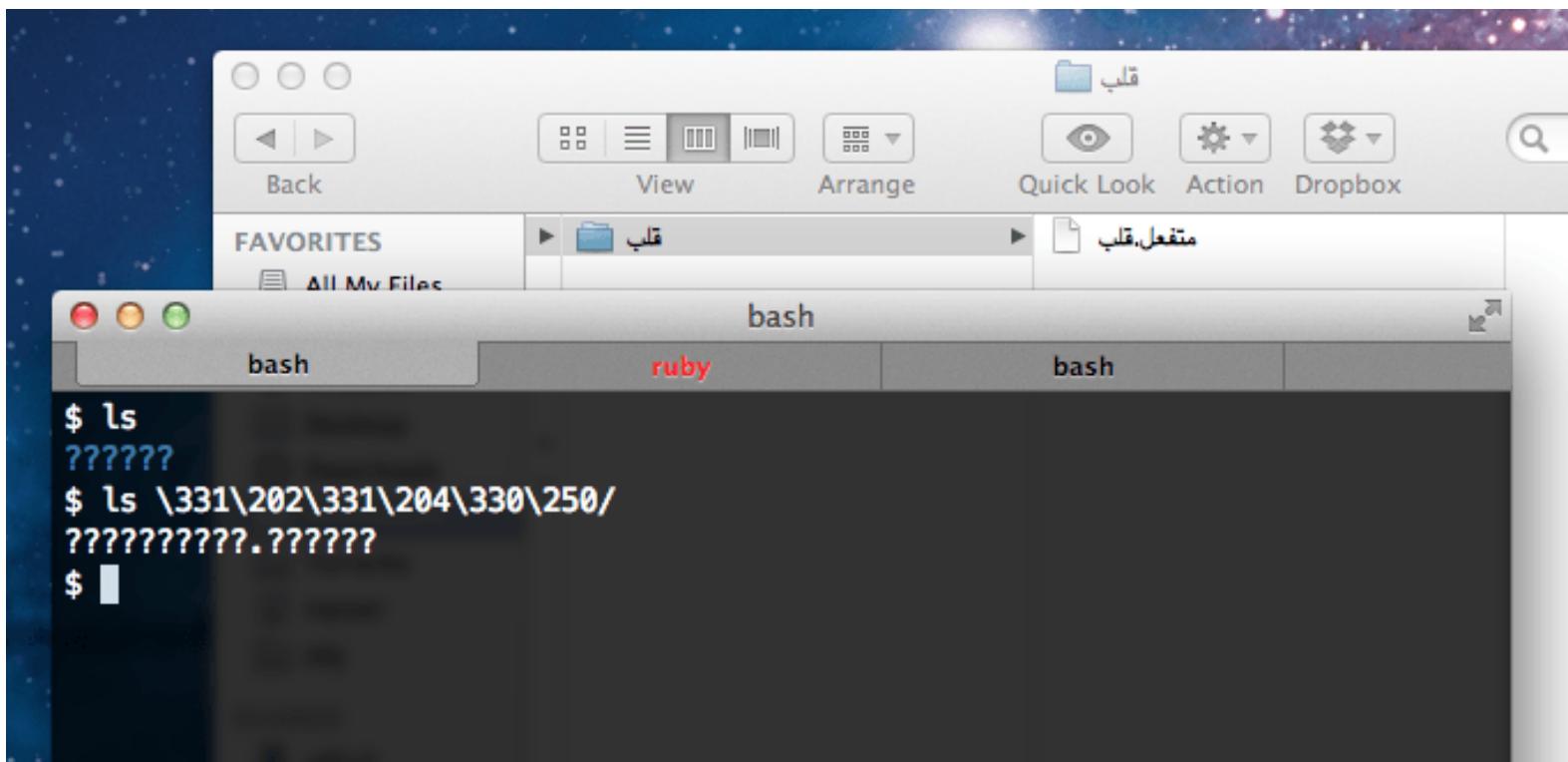
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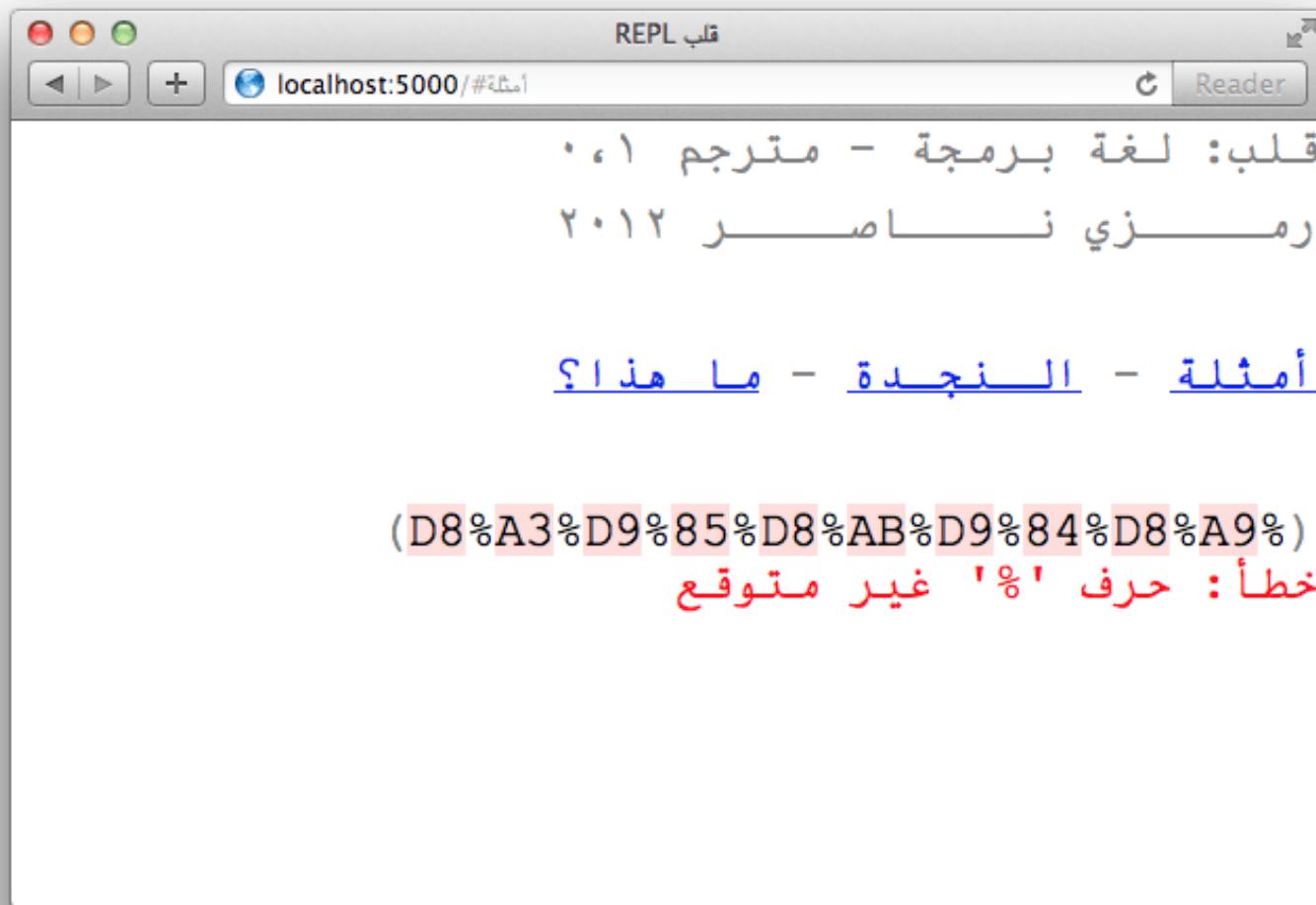
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Rename

Will be created as ----

```
git
+++ "b\Lib\331\205\330\252\331\201\330\271\331\204\331\205\330\252\331\201\330
@@ -12,9 +12,9 @@
 
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 ))
diff --git a/repl.html b/repl.html
index 3a61662..7aeb086 100644
--- a/repl.html
+++ b/repl.html
@@ -119,7 +119,8 @@
          // enter
          if(evt.keyCode == 13) {
            Repl.history.unshift(cm.getValue());
-
+           Qlb.execute(cm.getValue());
:|
```





# "Engineering Performance Art"

Text is hard,  
assumptions are  
everywhere

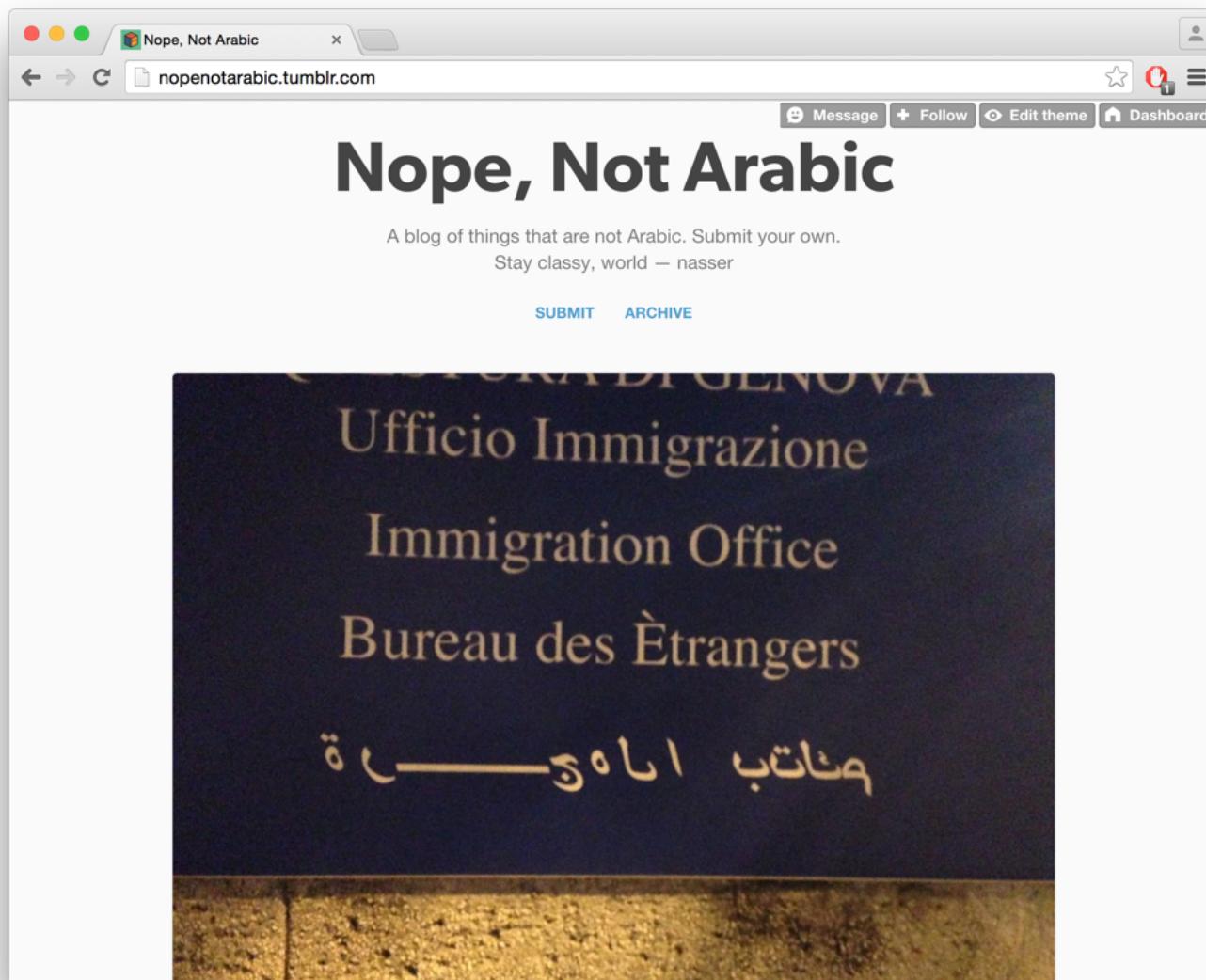
ASCII is everywhere

"plain text" = ASCII

human writing = one  
particular American  
encoding for latin  
characters

1,143





قلب can't ever be  
practical

Nothing like قلب can  
ever be practical

Underlying protocols  
and APIs are specified  
in English



... > Authorization Functions > CreatePrivateObjectSecurityWithMul...

Any suggestions?

# CreatePrivateObjectSecurityWithMultipleInheritance function

The `CreatePrivateObjectSecurityWithMultipleInheritance` function allocates and initializes a *self-relative security descriptor* for a new private

```
@.str = internal constant [14 x i8] c"hello, world\0A\00"

declare i32 @printf(i8*, ...)

define i32 @main(i32 argc, i8** argv) nounwind {
entry:
    %tmp1 = getelementptr [14 x i8]* @.str, i32 0, i32 0
    %tmp2 = call i32 (i8*, ...)* @printf( i8* %tmp1 ) nounwind
    ret i32 0
}
```

b

barrier  
glBeginConditionalRender  
glBeginQuery  
glBeginQueryIndexed  
glBeginTransformFeedback  
glBindAttribLocation  
glBindBuffer  
glBindBufferBase  
glBindBufferRange  
glBindBuffersBase  
glBindBuffersRange  
glBindFragDataLocation  
glBindFragDataLocationIndexed  
glBindFramebuffer  
glBindImageTexture  
glBindImageTextures  
glBindProgramPipeline  
glBindRenderbuffer  
glBindSampler  
glBindSamplers  
glBindTexture  
glBindTextures  
glBindTextureUnit  
glBindTransformFeedback  
glBindVertexArray  
glBindVertexBuffer  
glBindVertexBuffers  
bitCount  
bitfieldExtract  
bitfieldInsert  
bitfieldReverse  
glBlendColor  
glBlendEquation  
glBlendEquationi  
glBlendEquationSeparate  
glBlendEquationSeparatei

## ▼ Response Headers

accept-ranges: bytes  
age: 150116  
backend-timing: D=71644 t=1459405013323868  
cache-control: private, s-maxage=0, max-age=1  
content-encoding: gzip  
content-language: en  
content-type: text/html; charset=UTF-8  
date: Fri, 01 Apr 2016 23:58:48 GMT  
last-modified: Fri, 11 Mar 2016 20:16:29 GMT  
p3p: CP="This is not a P3P policy! See https://www.w3.org/2001/04/p3p/p3p12.html."  
server: Apache  
status: 304 Not Modified  
strict-transport-security: max-age=31536000; includeSubDomains  
vary: Accept-Encoding,Cookie,Authorization  
version: HTTP/1.1  
via: 1 1 varnish 1 1 varnish

"Human Readable" =  
American English

Software is about  
interacting with other  
systems

"Translations" do not  
work

# Python In Chinese

```
# -*- coding: utf-8 -*-
# this is a sample Python program
定義範例_1(訊息, 次數):
    取數在range(次數):
        印出 "哈囉, %s!" % 訊息
範例_1("世界", 百)
```

# Converted Python

```
# -*- coding: utf-8 -*-
# this is a sample Python program
def p0_1(p1,p2):
    for p3 in range(p2):
        print "哈囉, %s!" % p1
p0_1("世界", 100)
```

# Second-class Citizens

# Accidental Long Term Performance Art

قلب

# Researching privacy, security and other values in standard-setting

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Nick Doty  
UC Berkeley, School of Information  
Center for Technology, Society & Policy

# Outline

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1. Reviewing for privacy and security

2. Multistakeholder process

3. Representation and harassment

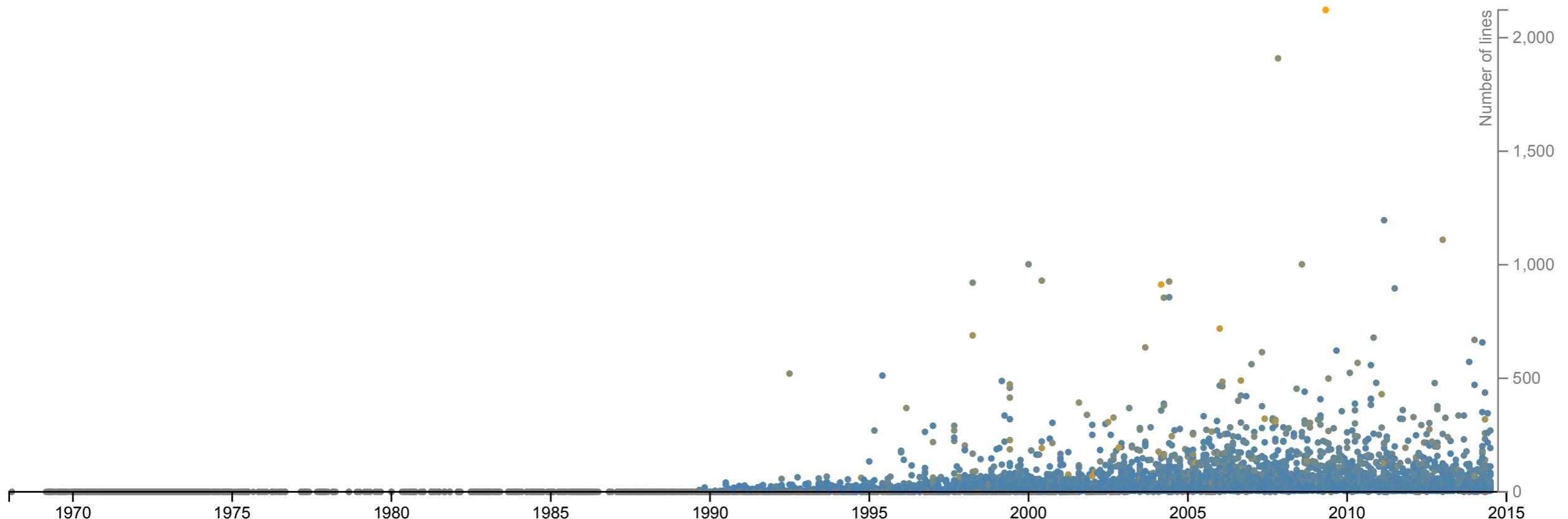
4. Methods

5. Collaboration

# Substantivity of IETF “Security Considerations”

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All RFCs are required to have a Security Considerations section.  
Historically, such sections have been **relatively weak**.  
—RFC 3552 (2003)



# People, processes and tools

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- IETF Security Directorate
  - RFC 3552
- perpass
  - RFC 6973
- IAB Privacy & Security Program
  - RFC 7258
- W3C Privacy Interest Group
  - Self-Review Questionnaire:  
Security and Privacy
- Web Security Interest Group
  - Fingerprinting Guidance for Web  
Specification Authors
- W3C Technical Architecture Group

# Trends in reviewing for privacy and security

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- systematization
- integration
- leadership

# Privacy in multistakeholder processes

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- participation
- expertise
- legitimacy

INTERNET MULTISTAKEHOLDER  
PROCESSES AND TECHNO-POLICY  
STANDARDS

*INITIAL REFLECTIONS ON PRIVACY AT  
THE WORLD WIDE WEB CONSORTIUM*

NICK DOTY AND DEIRDRE K. MULLIGAN<sup>1</sup>

Boundary Organizations:  
Enabling Collaboration  
among Unexpected  
Allies

**Siobhán O'Mahony**  
*University of California, Davis*  
**Beth A. Bechky**  
*University of California, Davis*

# Diversity and Representation

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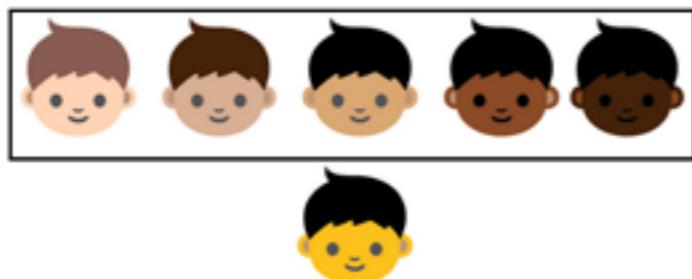
TECH EMOJI

## Apple Pledges to Make Emoji More Ethnically Diverse

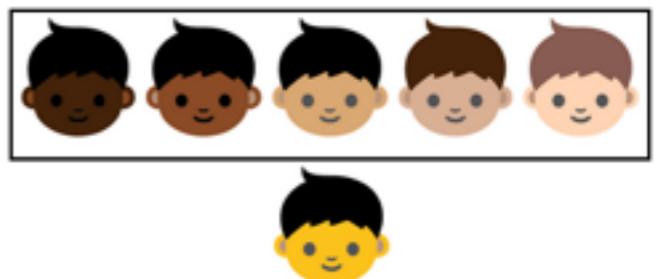
Michelle Arrouas @MichelleArrouas | March 27, 2014



### Minipalettes

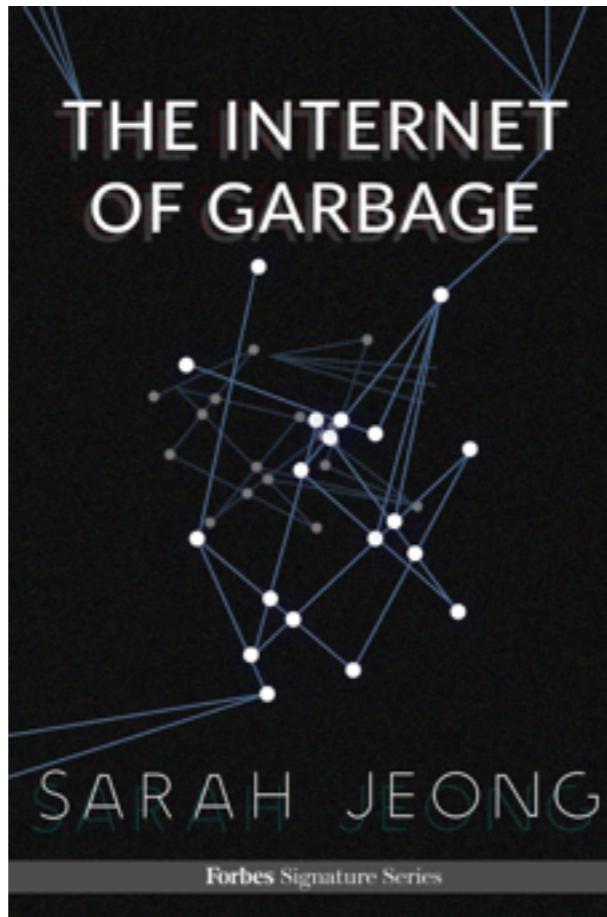
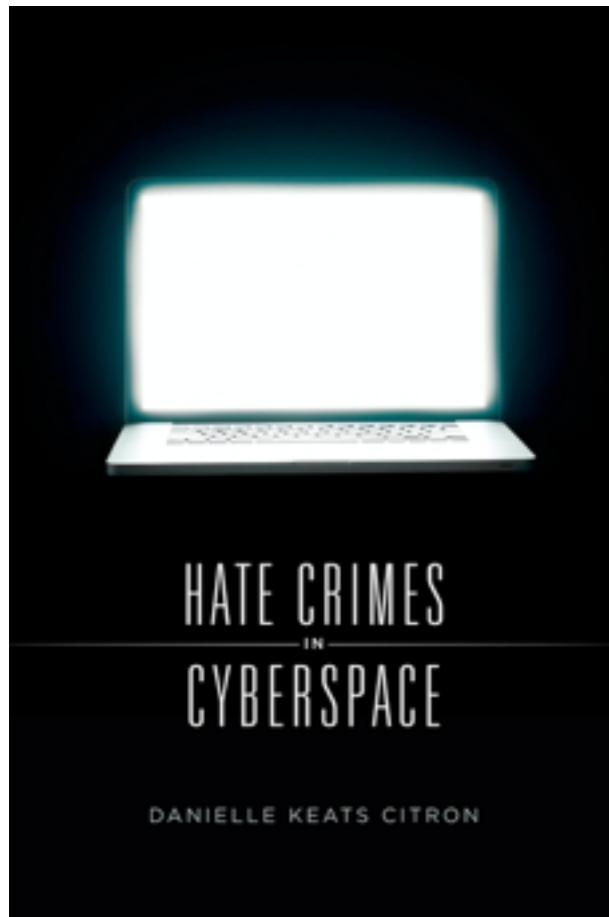


or



# Harassment and Free Expression

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## Block Together (beta)

A web app intended to help cope with harassment and abuse on Twitter.

- Block young accounts (< 7 days old) that mention you.
- Block accounts with < 15 followers that mention you.
- Share your block list with friends [\(Example block list\)](#).
- Follow [@blocktogether](#) for news and updates.

[Sign up using Twitter](#)

<link rel="abuse" href="https://example.com/abuse">

# Methods

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ethnography

qualitative and quantitative

# Qualitative Methods

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- semi-structured interviews
- participant observation
- discourse analysis
- self-reflection

## Leadership and systematization

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“Now everyone [thinks about security]. Not everyone does, but as soon as you don’t, you get called out. [...] The security area directors are like a force to be reckoned with at this point.

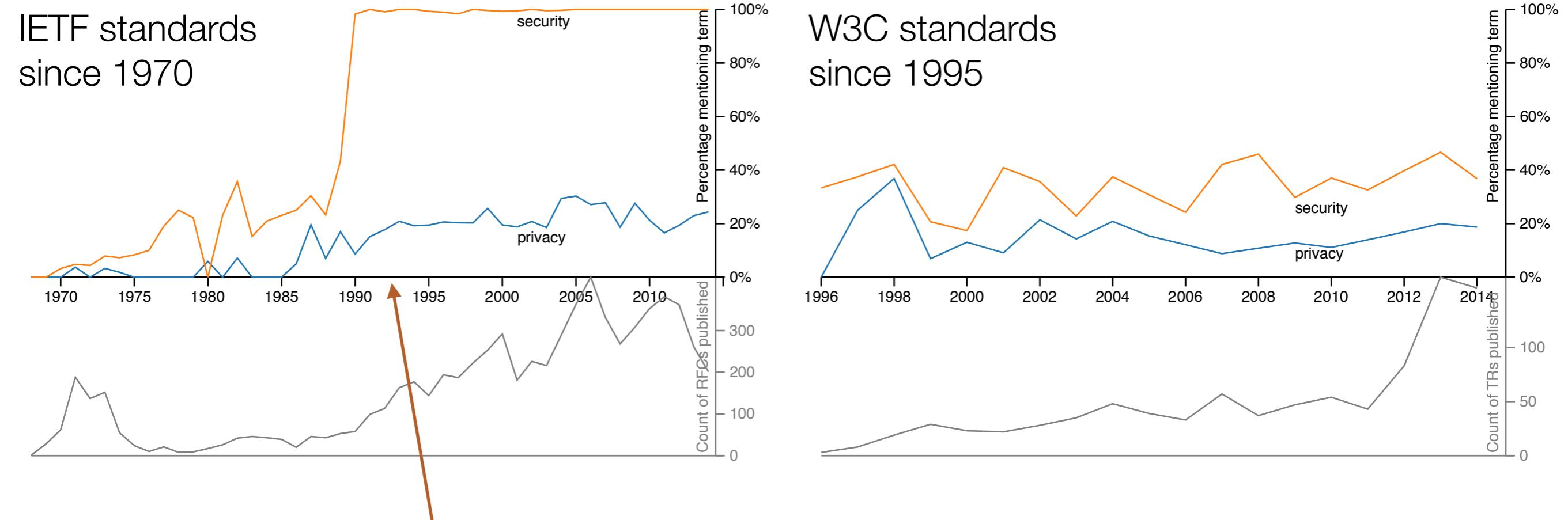
Free lunches got a volunteer Security Directorate started. “Once it was institutionalized and organized, [...] there was enough momentum to keep it going.”

# Quantitative Methods

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- textual analysis of:
  - mailing lists
  - documents (RFCs, etc.)
  - meeting minutes
- social network analysis

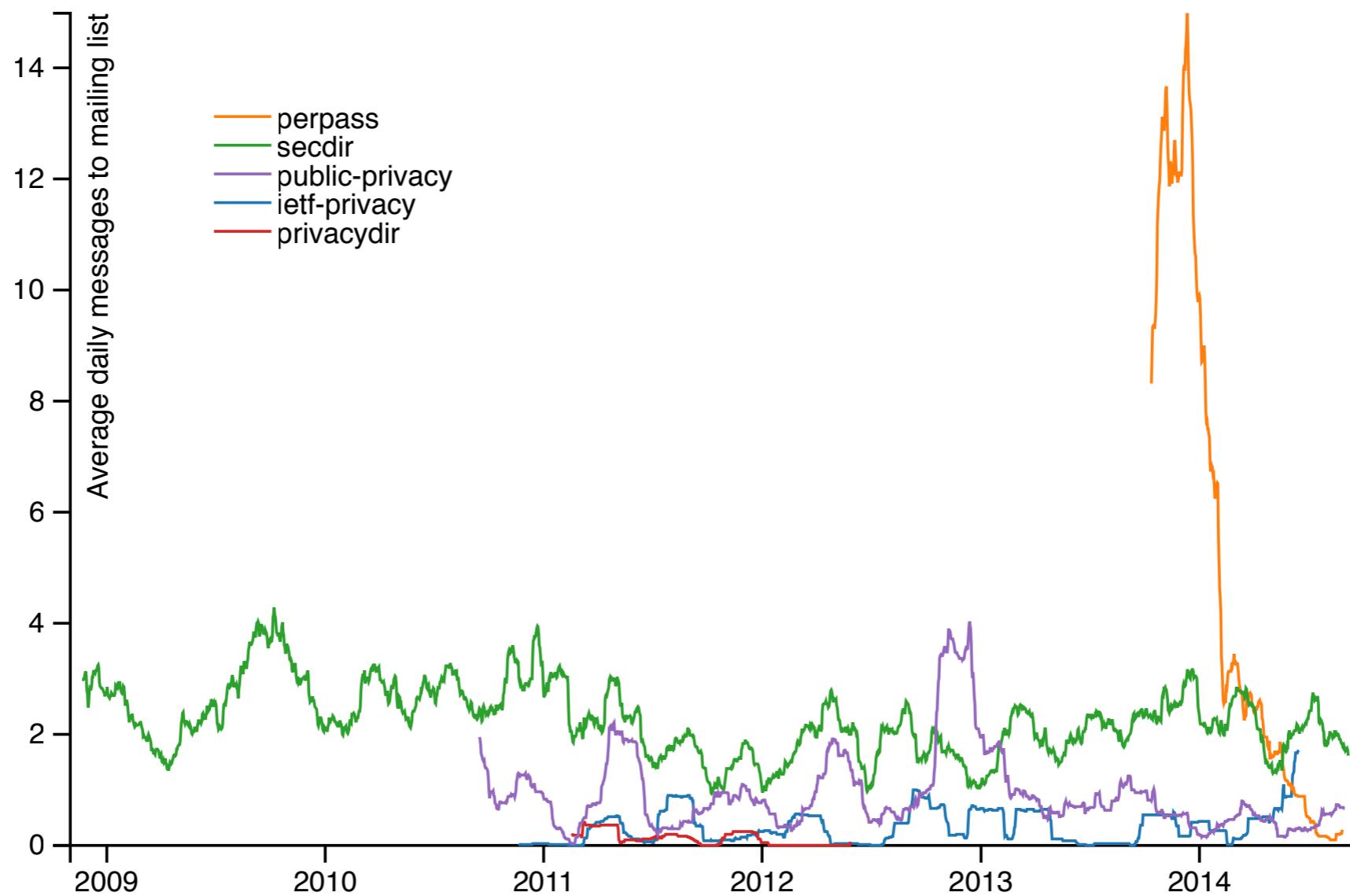
# Privacy and security in standards over time



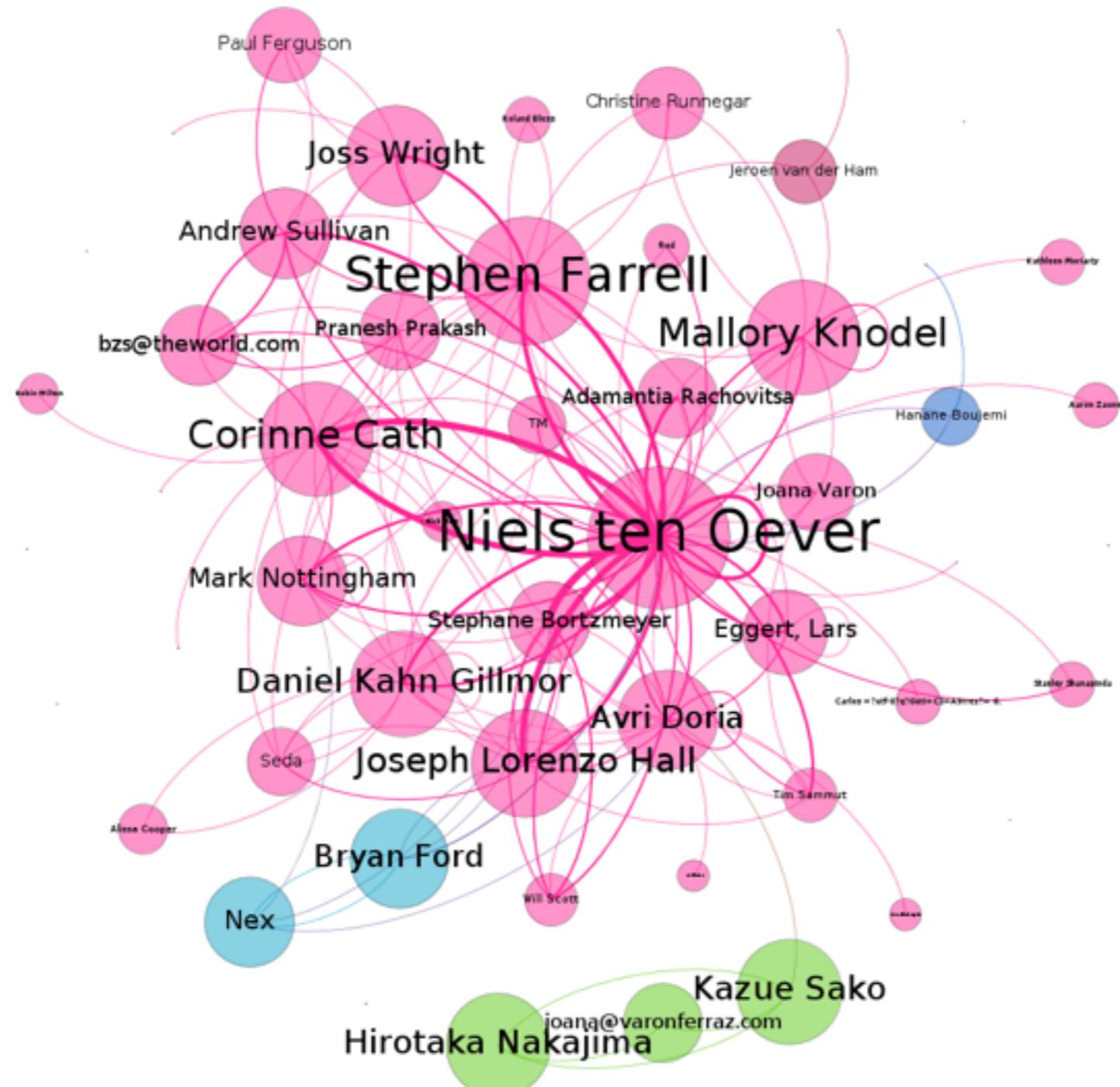
1993: “Security Considerations”  
section required

# Snowden reactions reflected in mailing list activity

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# Social network analysis



# Collaboration

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- How do we get more academics involved in standard-setting?
- Center for Technology, Society & Policy is funding projects in *Infrastructure, Standards & Governance*
- How can standard-setting research fit into larger projects on *privacy engineering, privacy-by-design* and *values in design*?

# Thanks!

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Nick Doty  
<https://npdoty.name>  
<https://ctsp.berkeley.edu>

# Discussion of Research Draft Ten Oever-research-hrpc-00

Including first draft of human  
rights protocol considerations

Corinne Cath

&

Niels ten Oever



**CAN  
INTERNET  
PROTOCOLS  
AFFECT  
HUMAN  
RIGHTS?**

# What's new?

- Refactoring
- Merges
  - Methodology draft <https://tools.ietf.org/html/draft-varon-hrpc-methodology-04>
  - Glossary draft <https://tools.ietf.org/html/draft-dkg-hrpc-glossary-01>
- Methodology improvements
- Additional case studies
  - DDOS
  - HTTP Status Code 451
  - Middle boxes
- New literature and discussion section
- First draft human rights protocol considerations

# Refactoring

- Research that was proposed has been done
- No need to differentiate anymore between what is planned and what has been done
- Improve readability

# Merge

<https://tools.ietf.org/html/draft-varon-hrpc-methodology-04>

<https://tools.ietf.org/html/draft-dkg-hrpc-glossary-01>

- Glossary was outcome of one research step in methodology (4.5)
- Merge contributed to a (more) consolidated research document, fitting to state of research
- Glossary became 'Vocabulary Used' in new draft

# Methodology improvements

- Academic style explanation of the steps followed to reach the conclusions

# Additional Case Studies (I) - DDoS

Question:

Do DDoS attacks enable or threaten human rights?

Consensus on list:

- From a technical perspective, the difference between a 'legitimate' and 'illegitimate' DDoS attack is meaningless
- IETF needs to be consistent in the face of attacks, it cannot create protocols to enable some attacks and inhibit others
- No one benefits from weakened infrastructure in the end

# Additional Case Studies (ii) - HTTP Status Code 451

- Useful to track cooperative, legal versions of content removal resulting from requests
- Not a solution to detect all occasions of censorship
- Positive impact on human rights (due process, transparency, possibility for redress, potentially trigger to use circumvention tech)

# Additional Case Studies (iii) - Middleboxes

Tension between:

- End-to-end principle
- Network optimization
- Privacy and security concerns
- CDNs & Access
- Continue the discussion? Differentiate between different forms of middle boxes?

# New literature and discussion section



# New literature and discussion section

Further academic grounding of the research:

1. Clark et al [2005]
2. Brown et al [2010]
3. Broeders [2015]
4. Bless and Orwat [2015]

# New literature and discussion section

'We must find ways to continue guaranteeing the overall integrity and functionality of the public core of the Internet.'

- Broeders 2015

# New literature and discussion section

'Pure technical solutions for enabling, enforcing or restricting rights/values are often costly, insufficient, inflexible, may have unintended consequences or create stakeholders with too much power.'

- Bless and Orwat 2015

# New literature and discussion section

## RG position:

- 'Hard-coding human rights into protocols in addition to being undesirable is also impossible, because each situation is dependent on its context.'
  - » BUT
- 'It is important to make conscious and explicit design decisions that take into account the human rights protocol considerations guidelines.'

# Guidelines for Human Rights Protocol Considerations

## (i)

How the technical concepts identified relate to human rights, and what questions engineers should ask themselves when developing or improving protocols.

## Guidelines for human rights considerations (ii)

Aim: Comprehensive analysis

Method: Questionnaire

Expect result: Thought process & documentation

We don't recommend specific practices [!!]

# Example: Accessibility

- When websites, web technologies, or web tools are badly designed, they can create barriers that exclude people from using the Web. Is your protocol designed to provide an enabling environment for people with disabilities? It might be relevant to look at the W3C Web Accessibility Initiative for examples and guidance.
- Is your protocol optimized for low bandwidth and high latency connections? Could your protocol also be developed in a stateless manner?
- Impacts:
  - Right to non-discrimination
  - Right to freedom of assembly and association
  - Right to education
  - Right to political participation

# Next steps

- Guidelines are in question form, does this work?
- Too many questions, too little questions?
- Suggestion by Nick Doty:
  - Use examples and questions based on impact / practice (such as done under 'censorship resistance') similar to W3C tag security questionnaire
- After IETF95 and integrating comments > calls for adoption by RG ?
- Reality check → who is working on a draft and wants to test this?

# **draft-doria-hrpc-report- 00**

IRTF HRPC-Meeting

IETF95

April 4 2016

Buenos Aires

# Changes since last version

- Doc is companion to Research doc.
  - Renamed & reworked to take into account merging of Terminology and Methodology into Research doc.
- Added some descriptions of related research. Section should include all work referenced in the RG including work specifically called out in Research doc.
  - Much yet to be written.
- Included description of Internet core protocols as a Public Good
- Included issue of next research steps
- Updated emergent issues section based on list discussions:
  - DDOS as Freedom of Expression?
  - Differentiating implementation and deployment effects from protocol design.

# **draft-hall-censorship-tech-03**

Joseph Lorenzo Hall, CDT  
[joe@cdt.org](mailto:joe@cdt.org)

IRTF HRPC WG meeting  
IETF 95 (4 April 2016)

# Context

- **Draft:** <https://datatracker.ietf.org/doc/draft-hall-censorship-tech/>
- **Goal:** provide a reference for internet protocol engineers about technical methods to accomplish censorship using protocol features.
- Relationship to RFC 7754 (“Technical Considerations for Internet Service Blocking and Filtering”):
  - RFC7754:
    - **audience** those that would filter or block
    - **purpose** is to assess blocking and filtering methods, impact on internet architecture, and recommends dealing with problems at endpoints
  - This draft: **audience** is protocol engineers, **purpose** is to serve as a reference

# Update for -03

- Refactored text into Markdown
  - You should be able to pull from the repo and build:  
<https://github.com/josephlhall/rfc-censorship-tech>
- Structure is now: “prescription, identification, interference”
  - From “aggregation, identification, prevention”
- Attempt to deal with comments from:
  - Stéphane Bortzmeyer (github issues #2-8)
    - Not done yet!
  - Martin Nilsson (github issues #9-12)
  - Work from co-authors (Aaron (CU Boulder), Feamster & Jones (Princeton))

# Open Issues

- Hoping to be ready for (potential) AD-sponsorship at SAAG in Berlin.
- Likely need one more restructuring in terms of interference:
  - [Bortzmeyer](#): split “censorship by DNS” up for greater clarity
  - [Feamster](#): Split up structure via layers:
    - Network Layer (IP), Transport (TCP/UDP), DNS, Application Layer (HTTP Request/Response, TLS SNI, DPI and other application identification mechanisms)
- Seamus Touhy:
  - cross-ref with CAPEC attack patterns definitions.  
[https://github.com/elationfoundation/CAPEC\\_censorship](https://github.com/elationfoundation/CAPEC_censorship)

Open discussion other  
drafts, papers, ideas

# Next Steps

# AOB (i)

Civil society (friendly) dinner at Green Life  
vegetarian – vegan restaurant  
After this session (20h)

Green Life  
Corrientes 1915 y Riobamba

# AOB (ii)

## NET OF RIGHTS

A short documentary film which explores the relation between Internet protocols and the promotion and protection of Human Rights.

## The Computers

The remarkable story of the six young women who programmed the world's first all-electronic programmable computer, ENIAC, as part of a secret US WWII project.

Screening /+/  
Q&A with the  
producers

Free admission. RSVP:  
[lucciferri@adc.org.ar](mailto:lucciferri@adc.org.ar)

Proyección /+/  
Q&A con los  
productores

Entrada libre. RSVP:  
[lucciferri@adc.org.ar](mailto:lucciferri@adc.org.ar)

 Thursday, April 7

 San Martin 536, CABA  
Urban Station (Microcentro)  
 18:00 to 20:00 hs

Hosted by



 Jueves 7 de abril

 San Martin 536, CABA  
Urban Station (Microcentro)  
 18:00 a 20:00 hs

Convocan

