

Technologies of Civic Participation

Civic technologies and They Work for You

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Abstract

An investigation of civic technologies focused upon They Work for You, and including descriptions of civic hacking and open data, along with taxonomies of civil tech.

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Introduction

This essay will discuss the civic technology They Work For You and do so with regard to conceptions of hacking, open data. It will begin by moving from general descriptions of hacking and open data to specific investigations of They Work for You. After that, the essay will diverge from They Work For You to examine taxonomies of civic tech, how they might be applied to other

Civic hacking

Overview

It might be suggested that the stereotype of (not for profit) hackers is of an individual (usually a man) or a group (usually men) of programmers extracting information from (and, thereby, breaking into) a government or corporate computer system. In this gloss, hacking is akin to a high tech heist movie. Another way of understanding hacking might be to consider what it would appear to involve, namely , to hack iteratively at a large problem. And it is this conception of hacking that when applied to social problems gives rise to the term civic hacker. Thus the pre-existing outsider status of hackers is combined with commercial software engineering practices to address civil problems and to do so, for the most part, in a not for profit manner.

Open data

Overview

They Work for You

Overview

Aims

Quoting directly from the website, the aim of makers of the site is that it should "make it much easier for anyone to understand exactly what is going on in Parliament". I suggest that that aim has been implemented through three aspects of the site: (i) a front-end design that engenders accessibility; (ii) the

curation of permanent URLs; and (iii) the provision of open source and freely available code.

Implementation

Accessible design: search box



Figure 1: Search box

The screen shot within Figure 1 depicts the home page of the site, and prominently displayed within the home page is a search box, which, amongst other types of entries, accepts postcode [1] values. When a user enters a postcode within the search box the site will subsequently display information about the MP associated with the entered post code.

This clear and simple process is a good example of how the design of the site engenders accessibility, particularly for those users who do not know the name of their MP.

Accessible design: text only

A second way in which the design of the site engenders accessibility can be seen from the screen shot within Figure 2. The screen shot depicts a terminal (or console) based text only browser, and it is displaying the information from the They Work for You site for the current UK Labour Party leader Jeremy Corbyn. The text only browser displayed is called Lynx [2], which was created at the University of Kansas in 1992, and which was successor to the first browser (known as 'WorldWideWeb' [3]) developed by Tim Berners Lee [4].

Relatively few modern web sites fully support text only browsing, due to the inclusion of client side JavaScript DOM manipulation. However, text browsers

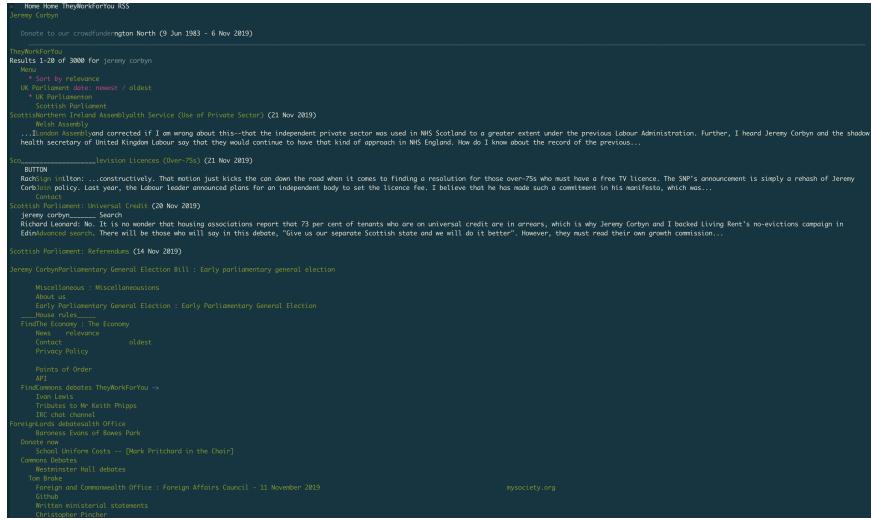


Figure 2: Text only browsing

are frequently the basis for text to speech browsing (or transformations) as used by those with disabilities, such as blindness. As such, the fact that the site can be viewed via a text only browser is another demonstration of how its design engenders accessibility, and, hence, contributes to civil society.

Permanent URLs

The second aspect of the site that enables it to contribute to civicl society is the construction of permanent URLs (or web addresses).

Sarah Jones
Shadow Minister (Housing, Communities and Local Government) (Housing)

To ask the [Secretary of State](#) for Housing, Communities and Local Government,
what discussions he has had with the expert advisory panel on building safety
on revising Advice Note 14 following the increase in unsalable properties in
tower blocks.

Esther McVey
Minister of State (Housing, Communities and Local Government)

Holding answer received on 21 October 2019
It has not proved possible to respond to the hon. Member in the time available
before Dissolution.

Figure 3: They Work for You: permanent page for a debate



Nick Brown Opposition Chief Whip (Commons) ○ 2:07 pm, 31st October 2019

I am replying for the **Opposition**, **Mr Speaker**. Before I do so, however, may I say to you, Sir, that I want to identify myself with absolutely everything my right hon. Friend the **shadow Leader of the House** said in tribute to you. You have been an outstanding Speaker, and you deserve the gratitude of us all. I know that to be praised by the Opposition **Chief Whip** will probably not help your standing with your colleagues, but let us face it—just between the two of us—it is probably too late to make amends. I can truthfully say, **Mr Speaker**, that nobody is going to miss you more than I am.

See this speech in context
[Tweet](#) [Share](#)
(Citation: HC Deb, 31 October 2019, c553)

Figure 4: They Work for You: permanent page for a single speech

The screen shot within Figure 3 shows a summary page (from within the They Work for You) for a debate between two MPs in the House of Commons. The debate, itself, is published by They Work for You with a permanent and unique URL. In addition, each speech (or interjection) within the debate can be viewed (and references) separately; such that, the They Work for You site also allocated permanent and unique URLs to each interjection, as can be seen from the screen shot within Figure 4.

<https://www.theyworkforyou.com/debates/?id=2019-10-31a.553.2>

Figure 5: They Work for You: permanent URL for a single speech

Lastly, Figure 5 depicts the URL for the interjection depicted by Figure 4. Such URLs curate all interjections and their parent debates, enabling references to them to used accurately across the web.

Open source

The third aspect of the implementation of the site that enables it to contribute to civil society is through the provision of open source, freely available code.



Pombola in South Africa
People's Assembly is opening government for South Africa, publishing debates, informing the populace and keeping politicians accountable.

Pombola in Kenya
Mzalendo makes the Kenyan Parliament accessible to citizens, with MP profiles, contact details and score cards for politicians.

The original inspiration
TheyWorkForYou is mySociety's UK parliamentary monitoring site, which inspired the creation of our configurable parliamentary monitoring software.

Figure 6: They Work for You: Pombola

To that end, the They Work for You site was redeveloped into a tool called Pombola. The screen shot within Figure 6 depicts information about Pom-

bola showing that it is currently being used to provide information about the parliaments in both Kenya and South Africa.

Author	Commit Message	Date
chrismyton	Merge branch 'update-pdftohtml-requirement'	Latest commit cb0f4a7 10 days ago
bin	Use the new za_hansard source command in cron	3 months ago
conf	Merge branch 'remove-unused-files'	6 months ago
data	Make location Merge branch 'remove-unused-files' a directories configurable	6 months ago
docs	Update BACKGROUND.md to reflect za_hansard move	4 months ago
pombola	Merge branch 'update-pdftohtml-requirement'	10 days ago
pombola_sayit	pombola_sayit: also create Identifier objects with Pombola slugs	3 years ago

Figure 7: They Work for You: GitHub

The Pombola code [5] is freely accessible from the GitHub [6] open source, online code repository, as be seen within Figure 7. It is worth noting that the development of Pombola was financed by the Omidyar Network [7], which is a philanthropic investment organisation, and which was launched by the founder of the auction based e-commerce site eBay [8] Pierre Omidyar [9]. Furthermore, and highlighting the sometimes complex interplay between civic technologies, the tools that the use, and commercial technologies, GitHub was recently bought by Microsoft [10].

Summary

Taken together, They Work for You contributes to civil society through its implementation, whose key aspects are: (i) accessible design; (ii) the construction of permanent URLs; and (iii) open source and freely available code, which, additionally (and through Pombola) aids the development of civil society in secondary countries.

Values

Overview

It is suggested that the values inscribed within They Work for You are the civic virtues of cooperation and data sharing. However, the same technologies that support such positive values may give rise to concerns about the data driven

nature of the site. That is, the site may lead users to focus on MPs voting patterns and not the broader aspects of their roles within a community or in indeed in government.

Strengthen civil society

Data object

One example of the dochotomy between an MPs voting patterns and their community work concerns former University of Edinburgh student Ian Murray [11], who has been the MP for the Edinburgh South constituency since the UK 2010 general election. In 2015, Hearts of Midlothian football club, which was founded in XXX, and which is one of the two football professional clubs in Edinburgh, faced closure following the bankruptcy of its Russian owner, XXXX. As a consequence of his role as the local MP, Ian Murray was asked by supporters of the club to liaise with the club's official receivers. Over several years, his work led to a supports buyout the club, which is now the only football club in the Scottish (or, indeed, the English) Premier League to owned by the supporters. Ian Murray was subsequently interviewed [12] on the BBC Parliamentary channel [13] with regard to a book he wrote, This is our story [14], describing his work helping the supporters of the football club.

Figure 8: They Work for You page for MP Ian Murray

However, while Ian Murray's involvement came about because of his role as an MP, it did not involve any specific questions in the commons. Consequently, is not described by the aggregated data on his They Work for You page, as can be seen from the screen shot within Figure 8.

Data object: response

Numerology

Please note that numbers do not measure quality. Also, representatives may do other things not currently covered by this site. [More about this](#)

Has spoken in **80 debates** in the last year — well above average amongst MPs. [See all Jeremy Corbyn's speeches](#)

Has received answers to **0 written questions** in the last year — well below average amongst MPs.

Replied within 2 or 3 weeks to [a very low](#) number of messages sent via WriteToThem.com during 2015, according to constituents.

Has voted in [73.43% of votes](#) in this Parliament with this affiliation — below average amongst MPs. (From Public Whip)

This MP's speeches, in Hansard, are readable by an average **18-19** year old, going by the [Flesch-Kincaid Grade Level](#) score.

492 people are tracking this MP

Has used three-word alliterative phrases (e.g. "she sells seashells") **2332 times** in debates — well above average amongst MPs. ([Why is this here?](#))

Figure 9: They Work for You: numerology section

That being said, They Work for You are aware of the problem. Within the page associated with each MP, they have added a section called Numerology, as can be seen from the screen shot within Figure 9, which highlights some of the problem around a data driven and potentially data object perspective.

Summary

In short, it is suggested that the values inscribed within the They Work for You site are the civic virtues of cooperation and data sharing. However, the site also offers the potential for MPs to be only conceived of in terms of their voting records and not in relation to the broader roles they play in their constituencies, as demonstrated by the description of Ian Murray's work with the supporters of the Hearts of Midlothian football club.

Challenges

Users

One of the primary challenge faced by They Work for You in fulfilling such contributions to civil society concerns the type of users accessing the site. Although They Work for You do not publish user statistics, the site has an Alexa rank of approximately 125,000 [15], suggesting, at least anecdotally, that the

site receives around 20,000 user visits per month. Whilst the contributors to the development of the site should be proud of such user engagement, it is suggested, however, that there may be an element of self selection amongst those using the site; that is, they are already interested in politics. Moreover, such self selection may ameliorate the strength of the contribution of the site as a whole to the general public and, thereby, civil society.

Web analytics

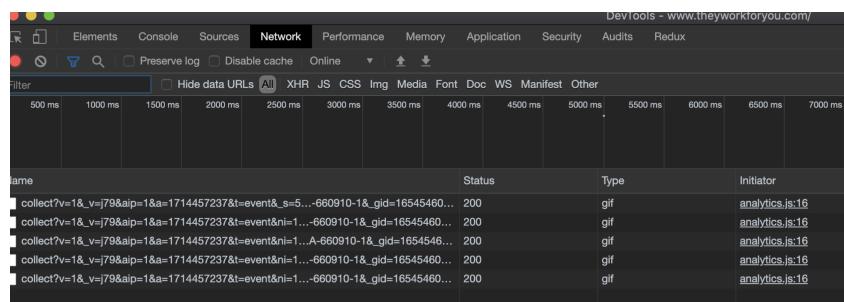


Figure 10: They Work for You: Google analytics

Figure 10 depicts a screen shot of network traffic generated by the They Work for You site when viewed using the Chrome browser. The five entries towards the bottom of the screenshot show that the site is sending information about user activity to Google Analytics [16] on an approximately second by second basis. That is, the client browser that the author of this essay used to view the site is sending information to Google Analytics. This finding suggests that They Work For You as an organisation do have access to statistics about user activity on their site. However, given that They Work for You is a small charitable organisation, it may well be the case that make use of the free version of Google Analytics. If that is the case, then the rights to the aggregated analytics data are held by Google, and that may explain why they don't publish data about usage of the site.

Finance



Figure 11: They Work for You: banner advert for donations

A second challenge facing They Work for You, and one that they may well share with many charitable organisations, is a lack of finance. To that end, Figure 11 depicts the home page of the site with an apparently permanent banner advert for donations. That being said, and according to a Guardian article in 2008 [17] They Work For you via parent organisation MySociety undertook paid work for the government to produce the UK e-petition site.



Figure 12: UK Government: E-Petition web site

A screen shot of the e-petition site can be found within Figure 12. In addition, the They Work for You now offer a paid for Application Programming Interface (or API) enabling secondary groups of individuals to access data (once an appropriate licence) has been bought.

Summary

In short, two of the challenges faced by They Work for You in fulfilling its aims towards civic society are: (i) how to promote an understanding of politics beyond those already interested in the subject, which is an issue that can be further addressed via web analytics; and (ii) they may face financial pressures, though as mentioned the overall picture of their finances may be more complex than it at first seems.

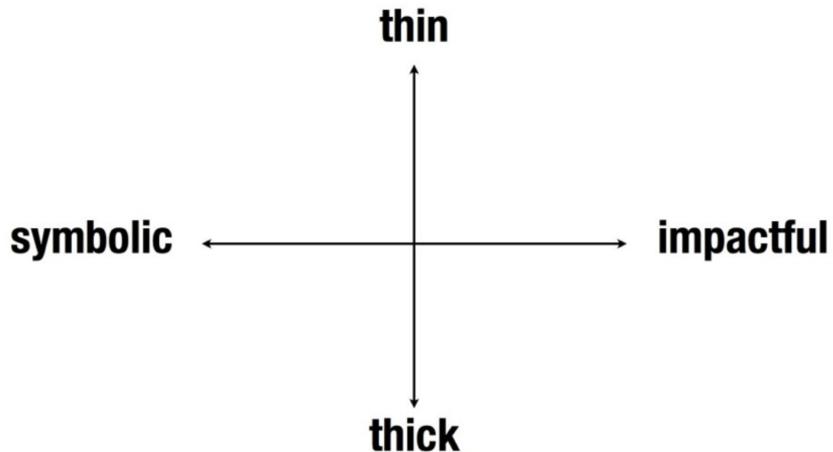


Figure 13: Taxonomies of civic technology: Sifry

Taxonomies of civic technology

Overview

In XXX Micah Sifry presented a visual depiction of a cartesian taxonomy of civic tech, as shown within Figure fig:taxonomy-sifry. The vertical axis of the taxonomy represented a scale of participatory engagement from thin to click, with 'thin' representing simply clicking a like button, and 'thick' representing activities more involved. The horizontal axis of the taxonomy depicts a scale of the aggregated outcome of such engagement, from purely symbolic to those that promote lasting impactful change.

Groups

Micah Sifry's taxonomy offers a powerful means of discriminating between and identifying different types of civic technologies. However, it is suggested that it does not offer a comprehensive means of describing individual projects. For instance, the taxonomy does not (directly) incorporate the nuanced conception of group membership outlined by Noveck. Nor does it address the political, social and engineering decisions underlying the technologies involved in such projects.

Infrastructure

Pipeline taxonomy

Overview

Definition

Low level technology → civic tech design → civic group engagement → civic power

Figure 14: Pipeline taxonomy

The diagram within Figure fig:taxonomy-pipeline represents an alternative, 'pipeline', taxonomy of civic technology projects. On the far left hand side of the diagram, can be found low Level technologies, such as servers or the accessibility of open web networks - important when considering civic technologies in countries with restrictive web practices. Moving forward to the right, the taxonomy addresses the design of individual civic tech projects, including the type of content that the offer. The taxonomy then encompasses the types of engagement such projects offer, particularly with regard to group membership. Lastly, it finishes with a phrase coined by Tom Steinberg (the founder of My Society), namely, civic power. That is, what types of civic power does a project engender.

Wikipedia

Further research

Richard Rogers

Summary

I would suggest that this pipeline taxonomy offer strong descriptive power (per individual civic tech project) but, unfortunately, lacks the discriminative clarity of the taxonomy proposed by Micah Sifry.

Conclusion

Appendix

References

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