

'X Journalism'.

Exploring journalism's diverse meanings through the names we give it

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Abstract

In this article we propose the notion of *X Journalism* as an observational tool and a concept. It owes its existence to a simple observation: the evolution of journalism is accompanied by the emergence of ever-new journalism-related terms, i.e. combinations of the word 'journalism' with a particular modifying term that represents and signals a certain specificity and novelty. Examples include 'robot journalism', 'foundation-funded journalism', 'cross-border journalism', or 'solutions journalism' – just to name a few. To date, we have collected and mapped 166 X journalisms and have 'crowd-categorized' them into clusters according to the different aspects they refer to. We explore X Journalism as a concept, present our mapping, and show how it can help to cope with journalism's increasing complexity, grasp the diversity of the field, trace its constant evolution, as well as identify patterns and interrelations between these different movements and occurrences. Through a test case of audience-related X journalisms we demonstrate an empirical application before illustrating the theoretical compatibility of X Journalism and suggesting a research agenda that highlights potentials for X Journalism-driven studies.

Keywords: journalism movements, journalism studies, X Journalism, mapping, journalism genres, audience-relationship

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1. Introduction

Journalism research has done much conceptual work to 'tame' journalism's complexity so that it might make sense of ever-new developments and journalistic forms into existing approaches. Much attention has been paid to discussions on what journalism is and what it is not, to whether it has distinct boundaries, and to how developments in (new) technologies, in audience attitudes and behaviors, in the financial-economic foundations of the news industry, as well as in culture and society affect it. This kind of continuous demarcating and (re-)conceptualizing is also precisely what the program of journalism research has always been about.

Much of the complexity that requires taming gets ascribed to digital transformation. This is exemplified in work that critically debates 'computational and algorithmic journalism' (Anderson, 2013) or considers the 'quantitative turn in journalism' (Coddington, 2015). More broadly conceived, the complexity gets tackled in ambitious empirical work like the 'Worlds of Journalism' studies (www.worldsofjournalisms.org) or the 'Beyond Journalism' project (AUTHOR YYYY) that maps emerging journalisms that deliberately position themselves outside of what the actors involved perceive to be traditional journalism. So we see different attempts to come to terms with the sense of hybridization and 'mess' in the journalistic field and the academic discipline that seeks to explore it (Witschge et al., 2019). This all indicates that, as scholars aim to make sense of what they perceive as a messy journalistic field, they simultaneously end up further nuancing and complicating it.

This paper has emerged from similar concerns and observations about the unruliness of the field, but follows a different and radically simple, and at the same time rich and productive approach. Namely, it does not come with a plea for another even more nuanced and granular theoretical concept. Rather, we argue that what we now need is an *observational tool* that allows us, first, to capture the diversity of the field *as a whole* by looking at it from a sufficient distance. Second, the tool should enable us to trace the

constant evolution of the field *over time*. And, third, it should help us study journalism *relationally*, that is, identify patterns in and interrelations between all these different movements and occurrences. Such an undertaking is only possible from a meta-perspective.

In this article we adopt just such a perspective and propose an observational tool that aims to map and observe journalism as it continuously gets re-articulated to a changing environmental context: *X Journalism*. We also propose to use X Journalism as a concept (with a capital 'X' and 'J'). Our proposition owes its existence to a basic observation: the emergence of ever new X journalisms (with a small 'j'), i.e. combinations of the word 'journalism' with a particular modifying term that (are supposed to) represent and signal a certain specificity and, in a certain time frame, novelty. Examples include the aforementioned 'algorithmic' and 'computational journalism', but also 'robot', 'foundation-funded', 'solutions', or 'cross-border' journalism – just to name a few. This routine of terminological distinction goes back to the pre-digital era when new terms were coined to signify, for example, the increasing differentiation of journalism practice into print, radio and television reporting and later, the de-differentiation into cross-media newswork. In the changing context, professional journalism has thus constantly been assigning itself new names – just as its scientific observers and educators have done. The result is an abundance of X journalisms originating from the three domains primarily responsible for defining and operationalizing what journalism is, can and also should be. Making better sense of this abundance, can reveal us why the terms have emerged. X Journalism approach can shed light on the triangle of journalism *professionals*, journalism *scholars*, and the *contexts* in which the terms have been used.

The emergence of a new X journalism can be taken as an indicator that an approach or practice has gained a certain level of awareness or acceptance in the field. For example, there is currently a lot of talk about data-related developments and practices (AUTHOR YYYY).

X journalisms can be classified into different categories, which sometimes emphasize a technological development, describe a specific type of relationship between journalism and audiences, focus on how newswork is funded, or imply some form of geographical reference. Such a classification allows us to turn the collection of X journalisms into a relational typology that helps us map, trace, and understand journalism's complexity and transformation over time through the names and labels we give it.

The discussion above describes the premise of the approach that we want to present in this article. We understand it also as a 'service project' for and with the scientific community as well as the journalistic field it aims to describe and understand. The main purpose of this paper is, therefore, to introduce the X Journalism approach, to present research questions that it can address, and to stimulate the collection of further X journalism terms from around the world.

In the following section, we will introduce X Journalism as a concept (2). Then we will discuss the mapping work we have already done by using X Journalism as an observational tool (3). Through a case of X journalisms that refer to specific understandings of the journalism-audience relationship, we will demonstrate an empirical application (4), and then illustrate the theoretical compatibility of X Journalism (5). We close by suggesting a research agenda that highlights potentials for X Journalism-driven research (6).

2. X Journalism as a concept: holistic, observer-related, and a three-dimensional understanding of meaning

The emergence of X journalism terms, although nothing new, has arguably gained momentum in recent years – in part because of the rapid growth in journalism scholarship and published professional reflection. We can also understand this as a reflection of journalism's professionalization and subsequent progressive differentiation, as well as a signal of certain trends in the field. It is a practice by which researchers and practitioners alike attempt to keep apace with the dynamics of the field, to distinguish a certain development from other trends, to assist in conceptual operationalization, and thusly to open up a more or less new area of investigation and praxis. We want to acknowledge that

coining a new X journalism can also be about building and attracting attention to a brand, either academic or professional (AUTHOR YYYY).

Therefore, one can always also argue in detail about what a particular X journalism designates (or claims to designate) and whether it can actually be sharply distinguished from neighboring terms. In fact, such conceptual definition work is often the focus of academic interest and a way to study developments in and of the field. A similar strategy can be observed in sociology, which also repeatedly produces 'X societies', i.e. large narratives describing societies in order to sensitize us to certain transformation processes such as the 'digital society', 'knowledge society', 'risk society', or 'datafied society'.

Our approach is similar to this, yet different in one key way. On the one hand, the various X journalisms represent empirical data about the emergence and usage of certain terms, and on the other, X Journalism stands for a *holistic* concept. As such, we understand X journalism terms as observer-related categories, be they journalists' self-descriptions of their own profession, or academics' tools of analysis. We follow a holistic perspective in that X Journalism is not restricted to one particular trend or a certain range of phenomena, such as datafied forms of journalism – but considers every new journalism term that comes up. However, it also works retrospectively : it is possible to trace the historical development of journalism. This can be done, for example, with respect to the differentiation into X journalisms such as 'political', 'economy', 'sports', or 'technology' journalism, which represent editorial departments and reflect topics or societal domains that have become differentiated.

Looking closer at X Journalism as a concept reveals its somewhat paradoxical nature as it represents a *variable constant* which makes it dynamic and stable at the same time.

'Journalism' in this sense represents the constant while the 'X' is the variable. The 'X' is always about a (new) form that – for whatever reason and by whomever – is particularly emphasized. Regardless of this, however, the labeled phenomenon is still referred to as 'journalism'. X journalisms thus share a certain 'family resemblance' (Wittgenstein, 2009

[1953]) in that they always come back to forms of journalism but cannot be clearly classified taxonomically and certainly not hierarchically. This is because the differentiating 'X' can be situated on many different levels: while, for example, 'digital journalism', on a technological level, stresses that certain newswork is based on or distributed through digital technologies, 'science journalism' differentiates itself from other forms in the dimension of topics that its reporting is about. Additionally, X journalism can exhibit blurred, overlapping boundaries – like 'computational' and 'data' journalism –, which in turn can itself become the subject of investigation (Coddington, 2015). In this sense, X journalisms also sensitize us to the relationships *between* them. This is because we can only fully understand a certain X journalism if we at the same time consider – or oscillate between – what is distinguished (the X journalism) and what it is that it is distinguished from (other forms of journalism).

These relations and the resulting network character can be made visible only through a mapping of X journalism terms. Such an exercise can reveal a rhizomatic reference structure (Deleuze and Guattari, 1977) in that all terms contain a journalistic concept, but for which no central or shared concept of journalism can be assumed.

This, of course, does not mean that there cannot be negotiations over whether a certain X journalism should be considered journalism at all. In fact, this fundamental interrelationship between demarcation and belonging is exactly the question journalism research is concerned with when dealing with boundary work in journalism (Carlson and Lewis, 2015). More abstractly, fundamental to any form of identity construction is an interplay of displaying one's identification with whom or what one regards as 'one's kind', and the simultaneous differentiating of oneself from whom or what one perceives as 'other' (Tracy and Trethewey, 2005). This twofold routine is also evident in the use of X journalisms in 'metajournalistic discourse' (Carlson, 2016) whenever an X journalism is referred to as a self-description by its advocates or as a category by its critics.

As such, X journalisms can serve as boundary objects, are a part of journalistic boundary work and the accompanying discursive struggles for legitimation, authority, and the power

to define what counts as (a new form of) journalism (Hanitzsch and Vos, 2017). This can be seen in the example of 'pioneer journalists' – a particular group of professionals who incorporate new organizational forms and experimental practice in pursuit of redefining the field and its structural foundations (AUTHOR YYYY): these actors are often concerned with a demarcation from what they see as established journalism, which still remains a point of reference – even if only *ex negativo*.

Every X journalism is a distinction, an act of naming and labeling, by which emphasis is placed on a particular form, while others are excluded. It is important to note that those 'other journalisms' that are excluded are just as important for the identification of a particular X journalism as is the denomination of the X journalism itself. As such, the X Journalism approach is a simple yet effective way to zoom in journalism's internal complexity without losing perspective of journalism as a whole. The value of collecting such terms increases with the size of the collection which enables us to sound out relationalities between and within certain clusters of X journalism terms.

In this vein, we assume that each term has *meaning* insofar as it denotes a difference – quite simply by the respective specification of the 'X' by someone (for example, a journalist or journalism researcher). This understanding of meaning differs from that in everyday life. Rather, it stands for the distinction between the context of meaning that is currently at the center of attention (a certain X journalism) which at the same time refers to other possibilities (other X journalism terms). From this point of view, meaning always refers to something specific, something different, which is not a subject at the moment, but which is however carried along as a possibility (Schützeichel, 2003).

Following Luhmann (1995: 75 pp.) we can distinguish – and regard as relevant for making sense of X journalisms – three dimensions of meaning: the fact¹, the temporal, and the

¹ It is difficult to translate Luhmann's German term 'sachlich' into an appropriate English word. Luhmann understands 'sachlich' in a broad sense as 'what is the topic or frame of reference?'. Hence, although here we use the translation 'fact dimension' (Luhmann, 1995), this must *not* be understood in the sense of 'fact-based' like the English term might suggest. According to Luhmann, the fact dimension does not come with any ontological assumptions about what is 'real' or what 'really is the case'. Instead, as in his systems theory in general, it follows a constructivist perspective and is thus understood as strictly observer-related (Scholl and Malik, 2020).

social dimension. Put simply, the fact dimension concerns *what* is the case or what is designated as a theme; it structures the reference frame of meaning by dividing between 'this' and 'that'. The temporal dimension indicates *when* something is happening; it differentiates between 'before' and 'after'. The social dimension indicates *who* it is that addresses something, who is the addressee, and/or whom something is about; it allows for the differentiation between 'ego' and 'alter' in social interactions and asks, for example, whether a certain meaning is shared among actors. All dimensions exhibit several subdimensions and, according to Luhmann, it is important to note that each dimension is meaningful only when combined with the other two; they can only be separated theoretically. Additionally, they operate on the production and the reception margins of communication processes (Kneer and Nassehi, 2000: 79; Lee, 2000).

In our approach, and with respect to the fact dimension, the respective 'X' stands for *what* an X journalism term designates. In temporal terms, it can be relevant *when* a term appears, changes, and possibly disappears again and, on a superordinate level, whether time periods can be identified in which the emergence of X journalisms accelerates (for example, in relation to changes in the media environment). The *who*, finally, points to questions such as, which actors are using an X journalism term, who is addressed and in which context, and perhaps what the motives are behind it. Altogether, this also allows us to differentiate between instances in which journalism observes *itself* and those in which it is observed *by others*, for example, by politicians or researchers when attempting to identify particular forms of societally relevant journalism. As Lee (2000: 321) notes with reference to Luhmann, "[s]elf-description occurs when the social system stops its operations long enough to consider itself as a unit, giving itself a name and naming what it is not".

X journalism terms are empirically identifiable communication units that allow us to identify these reflections; and the consideration of all three dimensions of meaning affords us the opportunity to draw a holistic picture of a systemic phenomenon and of who defines which X journalism at which time and in which way, especially in contrast to other

X journalisms. Against this background, X Journalism as a concept facilitates the investigation of complex and dynamic processes of the evolution of journalism.

3. X Journalism as a tool: collecting, categorizing, mapping

The collection of X journalisms that forms the backbone of the X Journalism project began as a byproduct of a research project on audience participation in journalism in 2010 (AUTHOR YYYY). First, we attempted to systematize the collection with a mind mapping tool, adding references, notable researchers, and relations between particular X journalisms referring to audience participation. This mind map is still online.²

At a conference in Finland in 2018, we revived the X Journalism idea, established our research network, and turned the idea into a research project. Since then the collection of terms has been ongoing through additional online crowdsourcing ([note anonymized for review]) and observation of the metajournalistic discourse, especially around conferences and meetings.

This illustrates how we understand X Journalism as both a *concept*, as outlined above, and a simple, yet effective *observational tool* that helps lay the groundwork for various theoretical and empirical research activities. This, however, requires a methodically adhered mapping approach. ‘Mapping’ is popularly harnessed as a descriptive tool in media and communications research. Typically, the term is used merely as a reference to the process and visual output of ‘charting’ diverse types of entities or other data, such as different journalism cultures (Hanitzsch et al., 2011), media accountability instruments (Eberwein et al., 2011), capabilities of news websites (Humprecht and Esser, 2018), or actor roles in social media (Bechmann and Lomborg, 2013), and even so-called ‘big data’ like the Twittersphere (Bruns et al., 2014) and ‘public web spaces’ (Rogers, 2013).

From crowdsourcing to categories

² URLs are anonymized for review purposes.

Using X Journalism as an observational tool, we have collected approximately 166 X journalisms, and our database is still expanding. We have inductively and consensually ‘crowd-categorized’ the terms into clusters representing the different aspects they refer to. This kind of mapping does not only provide an overview of X journalism terms. More importantly, the resulting typology helps us keep pace with the dynamics of the field. However, the categories are also open to expansion and could be defined differently.

Our eight categories of X journalisms refer to the above-introduced fact dimension of meaning: they cluster the terms in relation to *what* their ‘X’ primarily stands for.³ The list is sorted in descending order according to how many X journalisms have been assigned to each category. Since the collection was initially concentrated on contemporary terms and we have not yet carried out a systematic historical search for X journalisms, there does exist a certain bias towards terms linked to technology and data or audiences –; the X in an X journalism term can refer to:

1. a specific **motivation or reporting style** (e.g., ‘solutions’, ‘green’, ‘partisan’ journalism, but also classical forms, such as investigative journalism); (62 cases)
2. a (novel) **technology or data-led approach** used at different stages of the journalistic production process, for example, for gathering or presenting news (e.g., ‘sensor’, ‘drone’, ‘augmented’ journalism); (27 cases)
3. a **thematic focus or beat** (e.g. ‘politics’, ‘sports’, ‘technology’ journalism); (23 cases)
4. a particular kind of **audience relationship** in terms of participatory openness, publics reached, etc. (e.g., ‘engagement’, ‘millennial’, ‘citizen’ journalism); (21 cases)
5. a particular type of **(distribution) medium or channel** (‘print’, ‘Facebook’, ‘Snapchat’ journalism) (21 cases)

³ This is not to say that the other dimensions of meaning are not relevant to ‘understand’ a particular X journalism (for instance, in temporal terms an ‘X’ can be characterized by certain production rhythms, and in social terms, it could mean its reporting is of interest to only a specific group of people). However, if we look at X journalisms holistically from a meta-perspective and in relation to each other, the ‘X’, no matter what it may denote, always stands for the fact dimension of meaning.

6. a distinct form of **organizational or economic model** in terms of a particular structure or process of newswork, funding or business arrangement, etc. (e.g., 'crowdfunded', 'post-industrial', 'process' journalism); (20 cases)
7. a particular **place or locus** or, conversely, the decreasing importance of place when it comes to news use (e.g. 'hyperlocal', 'global', 'mobile' journalism); (13 cases)
8. a **time-related dimension** as expressed in 'slow journalism' or 'real-time journalism', which refers to the speed of journalistic production and publication cycles. (3 cases)

We do not understand these clusters as being particularly distinct – this would contradict the premise of understanding X journalisms as observer-related categories to which different meanings can be ascribed. One could, for example, discuss whether 'Facebook journalism' and 'mobile journalism' do not also fall under the category of technology, or whether 'crowdfunded journalism' stands for a particular kind of economic model rather than a specific type of audience-relationship. In any case, terms that fall into the respective clusters have a certain 'family resemblance' in the sense that they carry X's that refer to the same aspect, but they do not determine them entirely.

As explained above, these eight categories cluster X journalisms in relation to the fact dimension of meaning. To also acknowledge their temporal and social dimensions requires additional (meta)data and a more detailed examination of who uses a particular X journalism term and how, and in which time period it emerged or disappeared. In the following, we will demonstrate two ways in which we have already done this and, by that, created a database of X journalisms.

Database and automated data collection

We use a simple collaborative spreadsheet to manage our collection of X journalism terms. In this section, we elaborate on how we used code and APIs to enrich the terms with metadata, following the three dimensions of meaning previously established: while the X journalisms represent the fact dimension, we added information on a) the temporal dimension, or the point in time when these terms first appeared and, b) the social

dimension with respect to the level of scientific attention they generate. A current snapshot of the database in .csv format as well as the code are available on Github.⁴

At this stage, the spreadsheet, per X journalism, contains a unique identifier, the term itself, alternative spellings, up to two of the abovementioned eight categories assigned as tags, names of notable persons associated with the term, the year of its first mention, the number of related scientific search results, and academic references. While we manually researched the most relevant references according to Google Scholar's ranking, we used code to collect more metadata.

Querying databases about our terms was not trivial. When it comes to searches for text within text, the problems of disambiguation and anaphora resolution are evident (Mitkov, 2014). In our case, the search term is a 2-gram (a sequence of two words) which makes it difficult to generate empirically valid results: while some of the word combinations are unique and specific, like "gonzo journalism", others are more ambiguous, such as "new journalism" that can denote to the subjective reporting style from the 1970s, or just to any new aspect in journalism. How do we ensure that results only include hits in the correct sense? To maximize precision, we assumed APA style capitalization and used quotation marks to query for exact matches only.

Using Node⁵, we then built scripts to automate the searches. We decided on the *New York Times* Search API⁶ that allows to search in all NYT articles since 1851 as our "temporal" source and extracted time stamps for the earliest mention of each X journalism. Google Scholar⁷ gave us a general idea of academics' interest in a given X journalism by the number of search results. The Google Ngram Viewer⁸ – an index of n-gram time series data offered by Google as a byproduct of their catalog of digitized books (Sparavigna et al., 2015) – turned out not to be ideal as its corpus ends in 2008 while the journalism landscape appeared to be especially dynamic in recent years (Lewis and Zamith, 2017). Still, the data

⁴ <https://github.com/XXXX>

⁵ <https://nodejs.org/en>

⁶ <https://developer.nytimes.com/apis>

⁷ <https://scholar.google.com>

⁸ <https://books.google.com/ngrams>

shows historic trends well suited for display as sparklines or other visualizations: for instance, a general surge in relative hits since the 1990s demonstrates how journalism has diversified in recent years. We quickly discarded Wikidata⁹, a knowledge base of linked data concepts, as a source for our queries. Here, concept identifiers¹⁰ are needed to achieve workable results.

In visualizing the temporal data from the *NYT* we found interesting patterns that could be useful in further research. For example, we identified a cluster of first mentions in the year 1964 for terms like 'science journalism' or 'crusader journalism'. However, a cursory glance of the related articles did not reveal a certain correlation or linking event.

Overall, we explored multiple avenues for making sense of the metadata, learned more about the semantic intricacies of our terms as data, and have generated code that semi-automatically updates our growing database of X journalisms. We are now building interactive visualizations to present our data, such as a vertical timeline on which each term appears as a dot for which further information can be displayed. The results will be published on our project website along with a searchable wiki.¹¹

4. A test case: audience-related X journalisms

The clustering of the terms into a typology was the first step in the mapping exercise. A second step was to examine what occurs within distinct clusters. In this section we will show how the analysis of X journalism terms within the audience-relationship category can shed more light on the factual, social, and temporal differentiations in meaning that signify the different terms. In so doing, we hope to illustrate the heuristic and analytical value of X Journalism as a concept, applied here to the *scholarly* use of the terms.

⁹ <https://wikidata.org>

¹⁰ https://meta.wikimedia.org/wiki/Wikidata/Notes/URI_scheme

¹¹ <https://XXXX.XXXX.org>; we are currently developing our website and in particular visualizations in the form of an interactive web widget. It depicts the X journalism terms on a vertical timeline, on which each term appears as a dot, for which further information can be displayed.

In October 2018, we searched the literature database EBSCO Communication and Mass Media Complete¹² with all 24 X journalisms that we had by then identified as referring to a particular kind of audience or audience-relationship. The searches were conducted on titles, abstracts, and keywords for each of the terms. We excluded 123 search results from non-academic sources such as trade magazines, and ended up with a total of 822 mentions of audience-related X journalisms in 695 different scientific journal articles, book chapters, and conference papers, with ‘peer-to-peer journalism’ and ‘wiki journalism’ not being found at all (see Table 1).

| Rank | X journalism/ search term(s) | No. of academic papers mentioning X journalism | Year of first mention |
|------|---|--|--------------------------|
| 1 | Citizen journalism | 289 | 2006 |
| 2 | Public journalism | 184 | 1995 |
| 3 | Participatory journalism | 112 | 1998 |
| 4 | Civic journalism | 88 | 1995 |
| 5 | Community journalism | 57 | 1975 |
| 6 | Network(ed) journalism | 29 | 2007 |
| 7 | Interactive journalism | 12 | 2006 |
| 8 | Grassroots journalism | 11 | 2000 |
| 9 | Collaborative journalism | 8 | 2002 |
| 10 | Reciprocal journalism | 7 | 2014 |
| 11 | Crowd(-)funded journalism | 6 | 2012 |
| 12 | Crowdsourced journalism | 4 | 2010 |
| 13 | Deliberative/Deliberation journalism | 3 | 2012 |
| 14 | Hyperlocal journalism | 3 | 2011 |
| 15 | Conversation(al) journalism | 2 | 2015 |
| 16 | Dialog(ue)-oriented/Dialogical journalism | 1 | 2017 |
| 17 | Discursive/Discourse journalism | 1 | 2018 |
| 18 | End-user journalism | 1 | 2013 |
| 19 | Engaged/Engagement journalism | 1 | 2015 |
| 20 | Lay journalism | 1 | 2008 |
| 21 | Millennial journalism | 1 | 2009 |
| 22 | Relational journalism | 1 | 2017 |
| 23 | Peer-to-peer journalism | – | – |
| 24 | Wiki journalism | – | – |

Table 1: Overview of search results.

Along the *fact dimension*, we can clearly pinpoint the most mentioned X journalisms as ‘citizen’, ‘public’, ‘participatory’, ‘civic’, and ‘community’ journalism. Three of the terms –

¹² EBSCO CMMC comprises around 1,100 journals from media and communication studies (<https://www.ebsco.com/products/research-databases/communication-mass-media-complete>).

‘public’, ‘civic’ and ‘community’ journalism – refer to audience-related news practices or reform movements from the pre-digital era: ‘community journalism’ typically is about how community members themselves can practice journalism for the community they reside in, whereas ‘public’ or ‘civic’ journalism refers to the self-corrective ethos and movement that underlined the need for professional journalists to better engage with the public as active citizens rather than as passive consumers (Merritt, 1995). Here, the focus was shifted from politicians, authorities, and experts to the realm of civic life: citizens, grassroot organizations, schools, and so forth.

Two other top terms – ‘citizen’ and ‘participatory’ journalism – tell us more about the role of the audience in the digital era: they usually refer to the ways in which individuals can independently publish news material on the internet or how newsrooms can rely on citizens to send them information, footage or comments that they can then publish (Wall, 2017).

Consequently, the most used audience-related X journalism terms portray how the academic field has dealt with the shift from the mass media (few-to-many) to the social media (many-to-many) context.

Along the *social dimension* we collected the names of the publications (listed in the EBSCO database) in which audience-related X journalisms were discussed (see Table 2).

Journalism Practice is by far the top journal to feature these subforms most often. This could be evidence of how strongly the academic engagement with these specific X journalisms or X journalisms in general is connected to journalistic practice and not necessarily to theory. However, this interpretation needs further elaboration. It is also notable that ICA conference papers stand out as another important publication avenue. This indicates that academics have been using the X journalism terms in their mutual, scholarly discussions. To be able to further interpret the social dimension (for example, ‘networks’ of authors with similar interests, their motivations, consensus or disagreement in the field), qualitative analysis could be conducted on the key arguments or points of criticism around specific X journalism terms, or the key addressees of the texts: are they

primarily written for other scholars and students, or for reporters and managers in the industry?

| Rank | Publication venue | Total no. of audience-related X journalisms mentioned in publications from that venue |
|------|--|---|
| 1 | <i>Journalism Practice</i> | 107 |
| 2 | Papers presented at the International Communication Association's annual conferences | 68 |
| 3 | <i>Journalism</i> | 63 |
| 4 | <i>Journalism Studies</i> | 51 |
| 5 | <i>Journalism & Mass Communication Quarterly</i> | 51 |
| 6 | <i>Newspaper Research Journal</i> | 38 |
| 7 | <i>New Media & Society</i> | 29 |
| 8 | <i>Journalism & Mass Communication Educator</i> | 21 |
| 9 | <i>Pacific Journalism Review</i> | 13 |
| 10 | <i>International Journal of Communication & Journal of Mass Media Ethics</i> | 13 |

Table 2: Top 10 venues for works on audience-related X journalisms.

Our quantitative mapping proved most insightful in relation to the *temporal dimension* of meaning: we see that the four oldest terms are also among the top five most-mentioned terms. The first academic publication to mention an audience-related X journalism dates back to as early as 1975 with an article from the *Journalism Educator* on how students from XXXX University (anonymized for review process) took over Tombstone weekly *Epitaph* as a project in 'community journalism' ("Students take over Tombstone 'Epitaph'", 1975: 3). Over the next twenty years, 'community journalism' appears to have remained the only audience-related X journalism attracting scholarly attention: the next appearances – 'public' and 'civic' journalism – were first mentioned in 1995 (by Lambeth and Craig in *Newspaper Research Journal* and Arena in *Political Communication*), and 'participatory journalism' in 1998 (by Dardenne in the *History of Mass Media in the United States: An Encyclopedia*).

The real peak of audience-related X journalisms, however, was only after the turn of the millennium. This is not surprising, since in 2000 the two purely journalism-focused journals, *Journalism* and *Journalism Studies*, were launched, and then succeeded by *Journalism Practice* in 2007 and *Digital Journalism* in 2013, which crucially expanded the opportunities for publishing journalism-related research in general. In this publication

context, by far the most-mentioned term, 'citizen journalism', was first used in 2006 (by AUTHOR YYYY in an ICA conference paper, and by Nip in *Journalism Studies*). By then, technological development in online interaction and self-publishing had brought journalism's audience relationship to the limelight again. New opportunities afforded by the internet and related hopes for the democratization of journalism sparked a great deal of scholarly interest (e.g. AUTHOR YYYY; AUTHOR YYYY; Singer et al., 2011).

Furthermore, looking at when the different X journalisms were first used in an academic publication, we can distinguish between five phases of varying length (*temporal dimension*), each of which is characterized by the emergence of two to six new terms that seem to refer to the same particular facet (*fact dimension*) of journalism's relationship to and understanding of its audience (*social dimension*)(see Figure 1):

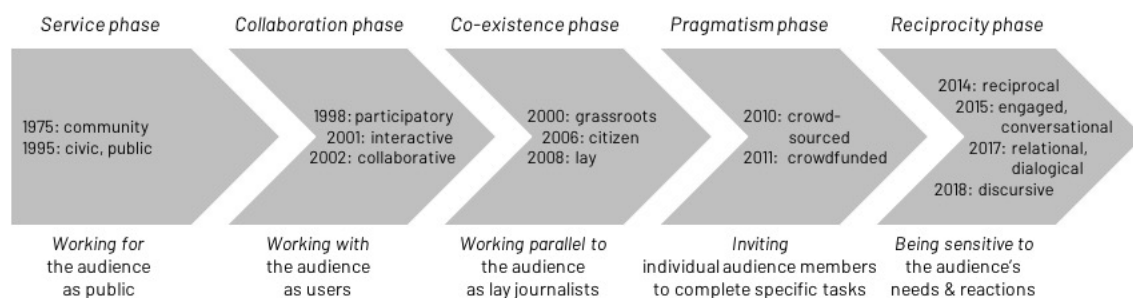


Fig. 1: Five phases of audience-related X journalisms.

The changes from one phase to the next represent certain shifts of focus with newly introduced and scholarly researched audience-related X journalisms differentiating themselves from those in the phase before in regard to the three dimensions of meaning. In these sometimes overlapping transitions, the meaning of the journalism-audience relationship, or at least the parts of it that were considered important, changed. It appears there was an initial shift from understanding the audience as a collective and democratic force towards a more individualized image of the audience as networked users and consumers, who then became shrewd and numerous enough (a crowd) to be given designated tasks in terms of background work or funding. Interestingly, research shows that audience engagement – a core aspect of many audience-oriented X journalisms – has

experienced a similar reframing from a normative-political to a strategic-economic meaning: nowadays, newsrooms often engage users either to have them help distribute content through sharing (Krumsvik, 2018) or to build a community around the medium and turn occasional visitors into subscribers or premium members (Malmelin and Villi, 2015). The last phase highlights that the competition, and perhaps the culture, of the digital realm requires that more attention is paid to the audience's needs in a more responsive manner and acknowledgement is made of the reciprocity of the journalism-audience relationship. Beyond the time covered by our mapping, we might now be witnessing a phase in which (some) forms of audience participation in journalism are conceptualized as outright 'dark' or counter-democratic (e.g. Quandt, 2018).

From X Journalism's holistic perspective, it would make the most sense and would probably be most revealing to connect and compare these investigations with the same analyses on other clusters of X journalisms: which X journalisms, for instance, emerge, vanish, or change in meaning in the categories of 'technology and data' or 'organization and business model' before, during or after developments in the audience-relationship cluster? And what does this tell us about the interrelations between technological, organizational/economical, and audience-related transformations?

All that said, we realize the limitations of our approach. With the type of database mapping described above, validity relies on what is included in the database. More importantly, our mapping strictly focuses on when a term gained *academia's* attention, which does not necessarily coincide with when it gained prominence in the field of *practice*. This would require mapping more closely such sources as editorials, trade magazines, j-blogs or journalism professionals' meeting memos. Furthermore, to gain a better understanding of the *context* in which the shifts in audience relations happen, we could conduct a qualitative inquiry of the texts as well as the surroundings in which they were published.

After this empirical case study, we would now like to illustrate the ways in which X Journalism is compatible with different theories.

5. Illustrating the theoretical compatibility of X Journalism

We understand X Journalism first and foremost as a descriptive and theory-agnostic approach that is compatible with various theoretical approaches. We have already made clear that our primary view on X Journalism is a constructivist one which considers X journalism terms as observer- and process-related categories rather than ontological realities. This is, however, an epistemological premise which one does not necessarily have to follow in order to make use of X Journalism as a tool and concept. To demonstrate the theoretical compatibility of X Journalism, we will briefly outline in the following how it can be used within different theoretical frameworks. What questions does, for example, systems theory pose to X Journalism, and which questions would field theory ask, and how would a figurational approach deal with X Journalism?

Systems theory, for example, would use X journalisms from a differentiation-theoretical perspective, looking, for instance, for co-evolutionary patterns between media change and changes in journalistic practice in the forms of de- and re-differentiation (Scholl and Malik, 2020; AUTHOR YYYY). Thus, one would, for example, ask to what extent developments around certain X journalisms reflect journalism's adaptation to changes in its environment. One possible interpretation is that specific X journalisms (such as data-related X journalisms) reflect broader societal trends (such as datafication). Journalism responds to these trends through its own means, for example, with structural changes (such as the implementation of new newsroom roles for handling data). From a systems-theoretical perspective, one overarching question would always be whether and to what extent such structural changes also contribute to changes in journalism's performance and whether this ultimately may also lead to a change (e.g. in the form of an expansion) in the function of journalism for society (Diakopoulos, 2019; AUTHOR YYYY).

Seen through the lens of Bourdieu's *field theory*, another variation on the theory of societal differentiation which has found various applications in journalism research (Benson and Neveu, 2005; Hanitzsch, 2016), certain X journalisms appear as professional milieus, that is, groups of journalists who have similar ideas of journalism's social identity and function. Moreover, field-theory-inspired research would be interested in how different individual

and corporate actors are differently equipped with (different forms of) capital in order to locate a particular X journalism within the journalistic field, for example, between the intellectual and the commercial poles (Bourdieu, 2005). As fields are conceptualized as relational and dynamic, power relations and positions change with each new actor who enters the field. Field theory would, then, analyze how and to what extent the relational structure of the field forces actors to change their position and identity in comparison with other actors; something that is observable with any X journalism that reaches a certain attention threshold and at a certain point of development is also attested structure-building power for the field (like it is currently the case with automated journalism and, occasionally, with investigative journalism). A useful blueprint for the continuation of field theory and X Journalism is a study by Marchetti (2005) in which he provides a categorization of sub-fields of specialized journalism, i.e. journalism with a specific thematic focus or beat.

A figurational approach as introduced by Hepp and Hasebrink (2018) into media and communications research would reconstruct and analyze particular X journalisms as specific communicative figurations characterized by a certain actor constellation (for example, editors, developers, users, community managers, media organizations) rooted in (communicative) practices (journalistic practices making use of particular media or technological tools, for example) and defined by particular frames of relevance or meaning orientations (in our case the respective 'X') which orient these practices (see for a figurational approach on 'pioneer journalism', AUTHOR YYYY). Consequently, such a figurational analysis follows an actor-centered and practice-theoretical approach while emphasizing on communicative practices based on a particular media ensemble relevant to the social domain under investigation. This means that with this approach, X journalisms would always be investigated with regard to their particularities with regard to media technologies.

6. Conclusion and future research

X Journalism owes its existence to a simple observation: that the evolution of journalism is accompanied by the emergence of ever-new journalism-related terms. The collection, mapping, and categorization of these various X journalisms can help us come to terms with journalism's increasing complexity, capture the diversity of the field, trace its constant evolution, and identify patterns and interrelations between these different movements and occurrences.

However, this can only succeed from an inclusive perspective which arises when we do not only concentrate on one particular 'X' that is considered relevant at a specific time, but try to capture the dynamics in their entirety. If we concentrate too much on the 'X' in journalism research, i.e. on what is regarded as new and 'innovative' at a given time, we risk neglecting and not adequately grasping the very character of journalism's ongoing transformation.

X Journalism is, therefore, supposed to be both a relatively simple *observational tool* and a *concept*. As an observational tool it makes use of the fact that the already existing and newly emerging X journalism terms that go along with journalism's evolution represent empirically identifiable communication units that are relatively easy to identify. It becomes a concept if we equip it with the following characteristics: it is holistic in that it is not focused on one 'X', but intended to capture and map all X journalisms; it is observer-related because it is sensitive to the fact that each X journalism is always brought to the world by someone and may be understood differently by different actors; and it considers the meaning of X journalisms as a product of the fact, social, and temporal dimensions of meaning, which in its most basic form acknowledges that the meaning of an X journalism depends on who uses which term at what time. Therefore, an X journalism can mean different things to different actors (in different contexts and points in time) and can also become the subject of negotiation processes in the field as well as in academia.

Furthermore, it would be possible to extend the mapping of X journalisms to different languages/languages spaces in order to open up a spatial dimension of meaning. This

appears especially important when considering that X Journalism so far is limited to English and is, thus, likely to be dominated by a Western perspective.

All this makes it clear that we understand the collection of X journalisms not only as a purely descriptive exercise, but as a conceptual-analytical approach that can provide the groundwork for various theoretical and empirical research activities. As a holistic concept, it is comparatively powerful as it can enable and stimulate research and can be used for many different purposes, for instance to:

- reconstruct the strategies behind the use of X Journalism terms in academia and in the field of journalism itself;
- analyze what types of terms (dis)appear at what time, e.g. to identify and differentiate between trends/phases in journalism's transformation;
- distinguish between terms of unchanged relevance and those with shorter lifespans;
- identify particular patterns of (re-)differentiation within the eight clusters or categories of X journalism terms;
- compare internationally the significance of particular X journalisms in different countries and journalism cultures;
- use as stimulus material in empirical research, e.g. in interviews with practitioners to create mind maps for related terms;
- investigate the potential co-emergence and relations between x journalisms and x societies.

The diversity of the theoretical, methodological, and practical application contexts of X Journalism as a concept owes itself to the simple idea of mapping X journalisms in order to explore journalism's diverse meanings through the names we give it.

5. References

AUTHOR YYYY
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- Anderson CW (2013) Towards a sociology of computational and algorithmic journalism. *New Media & Society* 15(7): 1005–1021.
- Arena J (1995) Making Things More Public: On the Political Responsibility of the Media Intellectual. *Political Communication* 12(3): 345–346.
- Bechmann A and Lomborg S (2013) Mapping actor roles in social media: different perspectives on value creation in theories of user participation. *New Media & Society* 15(5): 765–781.
- Benson R and Neveu E (eds) (2005) *Bourdieu and the Journalistic Field*. Cambridge: Polity.
- Borger M, van Hoof A, Meijer IC, et al. (2013) Constructing participatory journalism as a scholarly object. A geneological analysis. *Digital Journalism* 1(1): 117–134.
- Bourdieu P (2005) The Political Field, the Social Science Field, and the Journalistic Field. In: Benson R and Neveu E (eds) *Bourdieu and the Journalistic Field*. Cambridge: Polity, pp.29–47.
- Bruns A, Burgess J and Highfield T (2014) A ‘Big Data’ Approach to Mapping the Australian Twittersphere. In: Arthur PL and Bode K (eds) *Advancing Digital Humanities: Research, Methods, Theories*. London: Palgrave Macmillan, pp. 113–129.
- Carlson M (2016) Metajournalistic discourse and the meanings of journalism: definitional control, boundary work, and legitimation. *Communication Theory* 26: 349–368.
- Carlson M and Lewis SC (eds) (2015) *Boundaries of Journalism: Professionalism, Practices and Participation*. London: Routledge.
- Coddington M (2015) Clarifying journalism’s quantitative turn. A typology for evaluating data journalism, computational journalism, and computer-assisted reporting. *Digital Journalism* 3(3): 331–348.
- Dardenne R (1998) Participatory Journalism: Creating News and then Reporting That News to the Public. In: Blanchard MA (ed) *History of Mass Media in the United States: An Encyclopedia*. New York: Routledge, p. 496.
- Deleuze, Gilles and Guattari, Félix (1977) *Rhizom*. Leipzig: Merve.
- Eberwein T, Fengler S, Lauk E, et al. (eds) (2011) *Mapping Media Accountability - in Europe and Beyond*. Köln: von Halem.
- Hanitzsch T (2016) Das journalistische Feld. In: Löffelholz M and Rothenberger L (eds) *Handbuch Journalismustheorien*. Wiesbaden: Springer VS, pp. 281–293.
- Hanitzsch T and Vos TP (2017) Journalistic roles and the struggle over institutional identity: the discursive constitution of journalism. *Communication Theory* 27(2): 115–135.
- Hanitzsch T, Hanusch F, Mellado C, et al. (2011) Mapping Journalism Cultures Across Nations. *Journalism Studies* 12(3): 273–293.
- Hepp, A and Hasebrink, U (2018). Researching transforming communications in times of deep mediatization: A figurational approach. In A. Hepp, A. Breiter, & U. Hasebrink (Eds.), *Communicative figurations. Transforming communications in times of deep mediatization* (pp. 15–48).
- Humprecht E and Esser F (2018) Mapping digital journalism: comparing 48 news websites from six countries. *Journalism* 19(4): 500–518.
- Kneer G and Nassehi A (2000) *Niklas Luhmanns Theorie sozialer Systeme: eine Einführung*. München: Fink.

- Krumsvik AH (2018) Redefining user involvement in digital news media. *Journalism Practice* 12(1): 19–31.
- Lambeth E and Craig D (1995) Civic Journalism as Research. *Newspaper Research Journal* 16(2): 148–160.
- Lee D (2000) The society of society: the grand finale of Niklas Luhmann. *Sociological Theory* 18(2): 320–330.
- Luhmann N (1995) *Social Systems*. Stanford: Stanford University Press.
- Malmelin N and Villi M (2015) Audience community as a strategic resource in media work. Emerging practices. *Journalism Practice* 10(5): 589–607.
- Marchetti D (2005) Sub-fields of Specialized Journalism. In: Benson R and Neveu E (eds) *Bourdieu and the Journalistic Field*. Cambridge: Polity, pp. 64–82.
- Merritt D (1995) Public Journalism - Defining a Democratic Act. *Media Studies Journal* 9(3): 125–128.
- Mitkov R (2014) *Anaphora resolution*. London: Routledge.
- Nip J (2006) Exploring the second phase of public journalism. *Journalism Studies* 7(2): 212–236.
- Quandt T (2018) Dark participation. *Media and Communication* 6(4): 36–48.
- Rogers R (2013) Mapping Public Web Space with the Issuecrawler. In: *Digital Cognitive Technologies*. Wiley & Sons, pp. 89–99.
- Scholl A and Malik M (2020) Journalism and Systems Theory. In: Örnebring H (ed) *The Oxford Research Encyclopedia of Journalism Studies*. New York: Oxford University Press. Forthcoming.
- Schützeichel R and Luhmann N (2003) *Sinn als Grundbegriff bei Niklas Luhmann*. Frankfurt: Campus.
- Singer JB, Hermida A, Domingo D, et al. (eds) (2011) *Participatory Journalism. Guarding Open Gates at Online Newspapers*. Chichester: Wiley-Blackwell.
- Sparavigna AC and Marazzato R (2015) *Using Google Ngram Viewer for Scientific Referencing and History of Science*. arXiv:1512.01364 [cs].
- Students Take over Tombstone 'Epitaph' (1975) *Journalism Educator* 30(1): 3.
- Tracy SJ and Trethewey A (2005) Fracturing the real-self <-> fake-self dichotomy: moving toward 'crystallized' organizational discourses and identities. *Communication Theory* 15(2): 168–195.
- Wall M (2017) Citizen Journalism: Connections, Contradictions, and Conflicts. In: Franklin B and Eldridge S II (eds) *The Routledge Companion to Digital Journalism Studies*. New York: Routledge, pp. 235–243.
- Witschge T, Anderson CW, Domingo D, et al. (2019) Dealing with the mess (we made): unraveling hybridity, normativity, and complexity in journalism studies. *Journalism*. 20(5): 651–659.
- Wittgenstein L and Schulte J (2008) *Philosophische Untersuchungen*. Frankfurt am Main: Suhrkamp.