Game Engine Conventions and Games that Challenge them: Subverting Conventions as Metacommentary

Introduction

In recent decades, consumer-grade PC game engines such as Multimedia Fusion, GameMaker and RPG Maker have gained prominence, spawning online communities of users around them. With the advent of indie gaming, their cultural impact has dramatically increased, lowering the entry barriers for newcomers interested in expressing themselves through the medium of games. Coupled with the emergence of the Web 2.0, which has provided an effective infrastructure for promotion and distribution, these tools have helped broaden digital games’ reach as a medium. Yet, the specific context of these tools’ application, the social dynamics surrounding them, and the ways in which they foster creative expression remain something of an uncharted territory in game studies.

In this paper, I aim to address this lacuna by discussing online communities surrounding consumer-grade game engines. I will examine how conventions and canons pertaining to the use of the engine emerge in these communities—and how they are then challenged and subverted. Building on an autoethnography of my own experience as a hobbyist game developer, I will describe how community members develop games that probe the boundaries of the engine’s functionality and will discuss their motivation in doing so.
I will argue that the act of subverting established conventions of using a game engine can be considered a metacommentary on the engine’s expressive capabilities and intended use. This metacommentary can provoke wider reflection within the community and contribute to the development of the engine itself.

On a wider level, the question I will address through the prism of game engines is this: how can a creator challenge the constraints imposed by the tool they are using and the community they are part of, and what is the cultural significance of such subversive practices? Before posing this question, however, I will first discuss what kind of constraints are at stake when using a game engine.

1. The game engine and its constraints

Recent decades have witnessed a dramatic transformation in the mediascape, involving the blurring of the dichotomy between producer and consumer and increased accessibility of media production tools. In response, a number of useful, if overlapping, theoretical paradigms have been put forward to make sense of this transformation: “prosumerism” (Toffler 1981), “participatory culture” (Jenkins 2005), “maker revolution” (Anderson 2012), “digital DIY” (McFedries 2007).

In the realm of digital games, consumer-grade game engines (also known as “game makers”) are one of the most prominent examples of our changing relationship with media.

A game engine is software that accelerates game development, based on the idea of a “common substructure for similar games” (Bogost 2006: 52). “Substructure” in this context refers to lower-level stock routines, such as video and audio output, player controls, saving and loading functionality, world physics, and so on, which can be abstracted from the game proper. As these routines can be vastly different depending on the genre, hardware platform, and so on, game engines are typically geared towards a specific kind of “similar games”.

A game engine is thus a platform (Bogost & Montfort 2007) that enables and simultaneously constrains games made with it. Adventure Game Studio is called that because it incorporates most stock routines found in point-and-click adventures: a dialogue system, usable objects and inventory, mouse-controlled playable character, and so on. PuzzleScript is so effective for puzzle games because its entire syntax is based on an abstraction of the genre’s typical features (two-dimensional tile-based map, four-directional movement, movable objects, etc).

But when one attempts to accomplish something a game engine is not intended to do, they are likely to find it difficult or even impossible. You can, for example, create
a platformer with *Adventure Game Studio*. But you would have to manually implement a lot of functionality not covered by the engine itself: gravity and jumping, attacking and taking damage, enemy AI, and so on. At the same time, you would not be taking advantage of many of the tools’ built-in routines.

Even more universal tools like *Unity* and *GameMaker* can be challenging to use for purposes not intended by their developers: both, for example, would make it much more difficult to make a text-based game than, say, *Twine*, which is specifically designed for hypertext fiction.

This focus on a specific kind of game is what led Bogost (2006: 56) to conclude that “game engines regulate individual videogames’ artistic, cultural, and narrative expression” much more than, say, genre tropes do.

But beyond the “material constraint” of the game engine’s functionality there is also an immaterial constraint at play: that of conventions and canons associated with the engine. Some of them derive from official paratexts (Genette & Maclean 1991) associated with the tool, such as the title and the manual. Tools such as *RPG Maker* and *Adventure Game Studio* make it clear what their intended use is through their very titles. This is reinforced and concretized by tutorials and examples shipped with the engine. As a result, many games made with a game engine are either recreations or modifications of examples provided by the developers.

In between paratexts and the functionality of the engine itself are ready-to-use plugins, add-ins, and scripts included in the distribution. While not part of the tool proper, they are likely to be utilized by many of its users. For instance, many platformer games made with *Stencyl* have a very similar control scheme and “feel” because their authors made use of the tool’s standard platformer movement behavior.

Equally important to “official” paratexts are those made by community members. Online communities of users play a crucial role in regulating how “game makers” are utilized. Tutorials and examples created by community members and recognized by their peers as successful help establish a “canon” which subsequent contributions are judged against. When a newcomer asks for help, experienced members will often use that canon as a reference point, making adhering to it seem desirable. Sometimes, a failure to conform to the canon can lead to criticism from other community members.

But perhaps even more important are actual games made with the engine. Typically, the first thing you do when you discover a game maker community is play some of the games made with it (usually those that community leaders selected to feature on the website, message board, etc.). Moreover, the more successful games made with a game maker can serve as “ambassadors” for the tool, bringing in newcomers intere-
sted in creating something similar. In such a case, their vision of the tool will initially be shaped by the game that attracted their attention. Thus, for example, if most games made with a certain game engine have been sidescrolling shooters, it can generally be expected that subsequent creations based on the engine will also belong to that genre.

And yet, despite these material and immaterial constrains, there are plentiful examples of game engines being put to unexpected and improbable uses that challenge conventions associated with them. Ben Croshaw’s 1213 and Trilby: The Art of Theft are platformers made with Adventure Game Studio. Both have all the features expected of their genre and then some: gravity and jumping, weapons and combat, stealth… None of these are built into Adventure Game Studio, so they must have taken considerable effort to implement. This did not discourage the author despite tools better suited for platformer development being readily available online. Chris Vergilio’s roguelike Dark Woods may look like a DOS ASCII game (and is in fact a recreation of one), but it was developed with GameMaker, a tool known for its limited text capabilities, and seems to use raster sprites to emulate DOS text-mode. Several RPG Maker enthusiasts have developed complex scripts enabling the use of 3D graphics despite the engine itself having strictly 2D capabilities.

Similar examples can be found in nearly every online community centered on a popular game engine. But why are people willing to invest time and effort into making them? I will attempt to answer this question through an autoethnography of my own experience as a hobbyist developer.

Autoethnography refers to “research, writing, and method that connect the autobiographical and personal to the cultural, political and social context” (Ellis 2004: xix). As a method, autoethnography embraces the subjectivity of the researcher’s experience by recognizing its grounding in wider sociocultural context. Thus, through a reflexive account of their personal experience, the researcher is able to unpack the meanings and complexities of this wider context (Short et al. 2013: 2). The following section is a brief retrospective autoethnography of my engagement with a Russian-language text adventure development tool called URQ.

2. Technological ingenuity in the URQ community: a retrospective autoethnography

I became an Internet user in my pre-teens, shortly after the turn of the 21st century. At the time, dial-up was the dominant Internet access technology in Belarus (where I lived), and my family was no exception. For the following few years, my modem became a narrow peephole into the vast spaces of Web 1.0, a brave new world compri-
sed of personal webpages with inconsistently encoded text, blocky JPEG images, and outlandish GIF animations.

My early experiences of being online were full of excitement, but also filled with frustration and anxiety. Frustration, because there was never telling when the connection would drop, rendering several hours’ worth of downloaded data useless as the progress bar stopped short of the coveted 100% mark. Anxiety, because there was no telling how my parents would react to another astronomical phone bill.

Like most kids my age, the thing I was interested in most were games. Yet downloading even old graphical games on a dial-up connection was an ordeal, and contemporary ones were decidedly out of reach. (Most mainstream PC games were still distributed on CDs anyway.) This was when I discovered URQ.

URQ (“Universal Ripsoft Quest”)¹ was a Russian-language engine for “Choose Your Own Adventure”-style menu-based text games (also referred to as interactive fiction). While the original version of URQ had been developed for Windows, the newer interpreter was, counterintuitively, a console application originally written for DOS. This meant no graphics were supported. The text-mode games looked no-frills even by the day’s modest standards, yet at its peak URQ was perhaps one of the better known game creation tools in Runet (the Russian-speaking Internet community). There were two reasons for the tool’s popularity. First, the absence of graphics resulted in very small download sizes. Unlike their graphical counterparts, URQ games could be downloaded by the dozens in a matter of minutes—and the selection, if not necessarily the quality, was good enough. The second reason was the simplicity of URQ syntax, which made it easy even for a beginner with no programming knowledge to make a game of their own. All they needed to do was open a text editor and start typing something like this:

```
:title
pln Welcome to my first game.
btn start, Start the game
btn about, About the game
end
```

¹ At the time, the URQ community largely revolved around the now-defunct official site urq.ru. The current official site is urq.plut.info.
And, of course, URQ was much more than a programming language and an interpreter. It was a virtual community of interest (Henri & Pudelko, 2003: 478) with its own traditions, classics, and celebrities. And its sociality was perhaps what made it more appealing than more advanced game creation tools lacking a full-fledged community.

That said, the enthusiasm of many authors was not perhaps matched by the quality of their output. The gameplay was often tedious, too diligently recreating daily routines such as getting up in the morning and packing for school. Poor writing was exacerbated by poor spelling. On top of that, many authors seemed to take a kind of pride in violating Graham Nelson’s *Players’ Bill of Rights* (which was already translated into Russian\(^2\)) at every opportunity: many seemingly reasonable choices would unexpectedly lead to death or the game closing off with no possibility to win. At times, the typically short length of URQ games could indeed seem like a relief. In a 2007 interview with SPAG (an English language magazine dedicated to interactive fiction), one of the “old-timers” of the URQ community, a Ukrainian who went by the nick Go-raph, reflected on his experience of those early days: “I just did what I liked. The very

\(^{2}\) See the Russian translation here: http://ifwiki.ru/Билль_o_правах_игрока.
The process of game creation was fun for me, I had no concerns about whether someone would actually play it (and if he would be able to play it at all).³

The lack of established canon did not help, either. Some players still remembered old Russian Choose Your Own Adventure books by Dmitri Braslavsky and others. The few who understood English would have played some foreign works of interactive fiction. But for the majority of URQ enthusiasts, there was no milestone to look up to.⁴ The only standard to judge one’s works against were the better URQ games, most of which were still flawed. Oftentimes, it was the sheer volume of the game that won the community’s respect, signifying the author’s determination and the effort that went into the game. Larger games often prompted comments like: “The filesize is impressive, 400 kbytes of text is no joke”⁵. And if the prose happened to be readable, the game was guaranteed to become an instant classic.

Not that any of these shortcomings mattered. The burgeoning community churned out dozens of games on a monthly basis. A few of them were good, after all. There were a number of official, semi-official, and unofficial websites dedicated to URQ games. Competitions were organized regularly. Community leaders (the “inner circle” whose position was reinforced by their admin status on URQ’s official IRC channel) collected and posted reference materials on improving one’s writing and storytelling in an effort to raise overall game quality. There was a sense of movement, a feeling that the community was making progress and a vague hope for a bright future which, just possibly, would involve mainstream recognition. In the SPAG interview, Korwin, one of the original members of the community, reminisces about his hopes for the future:

I was very optimistic about it, wrote articles, wariked on two games simultaneously, tried playing English text adventures again: it seemed to me the only problem of the genre was the lack of publicity, and that in our ‘world’s most-reading country’ IF [interactive fiction] was just doomed to be successful.

³ The full interview is available here: www.spagmag.org/archives/backissues/spag48.html.
⁴ In the same SPAG interview, when asked about URQ games’ perceived lack of quality, one of the community’s most prolific authors known as Korwin pointed to “the absence of massive IF [interactive fiction] traditions in Russia”.
⁵ Comment by ifn00b, posted 27.12.05 at http://urq.borda.ru/?1–0–0–00000133–000–0-0–1208636688. (All the forum comments are translated from Russian by the author.)
For a long time I was a “lurker” in the URQ community: an invisible, passive participant who did not actively contribute to it (Soroka & Rafaeli, 2006). I played URQ games, read others’ posts on the tool’s message board without creating my own account, and made a number of short, unfinished games, which I never showed to anyone. It was only when I seriously started working on a game of my own that I had to announce my existence: some of my more difficult code was not working and I turned to the community for advice. Gradually, I found myself more actively engaged with the community, first through the message board and then through the tool’s IRC channel.

My first released URQ game, an unfinished demo called Where to Get €300,000?, was mildly unconventional in that it used a fixed set of verb-buttons (Look, Take, Use, ...) which then opened a list of objects they could be applied to, as opposed to the default CYOA approach where the choices offered to the player are specific to the situation in the game. This was in part an homage to classic adventure games like Monkey Island and partly an imitation of Captain Blud Chronicles, URQ’s own classic with a similar interface made by a member known as Goraph. The game was moderately well-received by the community, with some players specifically praising the technical features: “in reality, the so-called ‘demo’ could be seen as a full-fledged game with some impressive features: custom inventory system <…>, Blud-style menus, even rollback.”

I then followed it up with Thoughts Corporation, another unfinished game that featured a more dramatic departure from URQ’s built-in interface. It was a parser-like game with no buttons at all, where the player had to use the arrow keys to construct simple sentences out of a set of verbs and nouns. This change meant I could no longer use URQ’s convenient btn operator and, in essence, had to write a custom engine with its own interface—inside an existing engine. At that point URQ as a programming language stopped being simple and effective and became clumsy and esoteric. What was supposed to be clean and straightforward code ended up looking like this:

```plaintext
if curpos1=1 and #%token#y$$_nonlookable=0 then x=x+1&instr menu_le-v2btn#x$=#%#%token#y$$V$&instr i#x$=#%token#y$$
```

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6 https://urq.plut.info/300000euro.
7 Comment by Evgeny, posted 27.12.05 at http://urq.borda.ru/?i=0-360-00000171-000-0-0-1156202216.
8 https://urq.plut.info/corp.
if curpos1=2 and #token#y$$_type=4 and #token#y$$_openable=0 then
x=x+1&instr menu_lev2btn#x$=#%#%token#y$$V$&instr i$#x$=#%tok-
en#y$

Still, I persevered and released a functional demo version. Despite the incomple-
teness of the story, the game came first out of four entries at the yearly Summer Com-
petition\(^9\), largely thanks to the innovative interface. In fact, one of the more critical
comments explicitly stated that in Thoughts Corporation there was “an amazing engine
but no game.”\(^10\)

Figure 2. Xlomidomanad’s Experiments: an experimental game in URQ

The relative success of my technical gimmicks motivated me to go even further.
Inspired by roguelike-style walking demo by a user known as Terracon, I decided to
use URQ to make something nobody had attempted before: a turn-based tactics game.
The game, called Xlomidomanad’s Experiments,\(^11\) had an enemy AI which used the
Lee algorithm (Rubin 1974) for pathfinding. While the algorithm itself is straightforward,
implementing it in URQ proved a challenge for both myself and the interpreter,

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\(^9\) http://urq.borda.ru/?1–0–0–00000210–000–80–0–1212442099.
\(^10\) Comment by Borschevsky, posted 02.08.07 at http://urq.borda.ru/?1–0–0–00000210–000–10001–0.
resulting in a delay of up to two seconds before each enemy move. The initial release was warmly received by the community12 and the feedback prompted me to add more features: multiple playing characters, ranged attacks, improved enemy AI. The experiment never got beyond the stage of a tech demo, but it still became a reference point for what one could do with the URQ engine.13

Following the advent of broadband, URQ players started to drift away, switching their attention to the more appealing Flash and downloadable graphic games. The gradual rise in the general quality of URQ games seemed to have hit a ceiling. The erstwhile enthusiasm about URQ’s future started to wane as it became increasingly apparent that in the era of fast Internet connections, text adventures were doomed to remain a niche form of entertainment. Even the release of a new Windows interpreter supporting rich graphics and eventually skin customization could not reverse the tide. The ambition of “making it big”, which many authors had cherished, led them to other, more popular genres and platforms. Some of them are still part of the community for the social aspect of it, but do not produce any new URQ games. The URQ community joined forces with other text adventure engines in order to survive and in this form still exists in the more obscure corners of Runet.

Personally, I drifted away, despite having been promoted to community and website administrator. I am, however, still in touch with some of the friends I made while active in the URQ community.

It was only years later, when discovering some of the URQ games I had made on an older computer that I (by then a PhD student) asked myself: why had I been so interested in experimenting with the tool instead of using it as intended? Why had I been so willing to write and debug line upon line of unreadable code in order to achieve something I could have implemented much more easily with a better suited tool?

3. Subverting the game engine’s conventions

The same question can be asked of games discussed in section 1, such as Ben Croshaw’s 1213 and Chris Vergilio’s roguelike Dark Woods, both of which were developed using game engines ostensibly impractical for the task at hand.

From a utilitarian perspective, this does not make sense. If you use a sledgehammer to crack a nut, you most likely do so because there is no nutcracker at hand. Yet, with game creation software, this is clearly not the case. There are hundreds of tools

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12 Full discussion available here: http://urq.borda.ru/?1–0–0–0000200–000–0–0–1191393926.
13 For example, it was cited as such in this thread: http://urq.borda.ru/?1–0–0–0000384–000–0–0–1316245957.
readily available, and it is usually possible to find one specifically tailored for the type of game one has in mind. So why would you, presented with a choice between a nutcracker and a sledgehammer, still choose to crack a nut with the latter?

When I started to reflect on my own experience in the URQ community, I could think of three main reasons.

3.1. Social aspect
Creating a technologically ingenious game is a way to gain recognition in the community and establish yourself as a “tech guru.” This allowed me to circumvent the traditional path to recognition in the URQ community: create an engaging full-length game. My entire URQ output was shorter in terms of text length than some of the more ambitious games for the platform and it mostly comprised unfinished demos. Yet, technological creativeness was a social currency in its own right, quickly elevating my status in the community. Soon, other members were seeking my advice on how to implement this or that feature. (The same way as I had previously sought advice from the experienced “gurus” who had written technically complex games before.) This connection to less experienced members enables continuity within the community: newcomers are inspired by existing technically ingenious works and can learn from trying to recreate or better them.

This also leads to a level of expectation on the part of the community for one to keep coming up with new ideas. When a member of the English-language RPG Maker community presented an early demo of a 3D-enabling script for the tool, the first response they got on RPG Maker’s message board was: “Awesome. If anyone would do it, it would be you.”

This is not to say the response to experiments with the engine’s functionality is universally positive. Consider, for example, the following comment I received for my turn-based tactics game: “Folks, let us not forget that our games should emphasize the literary aspect.” To this, another commenter immediately responded: “Why’s that?” This goes to show that the “appropriate” uses of URQ were a contested terrain. On the one hand, URQ was positioned as an engine for interactive fiction, leading to the valorization of the literary dimension of games in the community. From this

15 Comment by Belial, posted 11.01.07 at http://urq.borda.ru/?l–0–0–00000200–000–0–0–1191393926.
16 Comment by Goraph, posted 11.01.07 at http://urq.borda.ru/?l–0–0–00000200–000–0–0–1191393926.
standpoint, games with little writing were bound to be seen as marginal. On the other hand, there was a discourse of URQ as a flexible engine with richer capabilities than were immediately obvious. This discourse became particularly prominent when the advantages of URQ were preached to outsiders, such as users of game engines seen as URQ’s rivals. And what better demonstration of the engine’s power than proof it can be used to make a technically complex game in a very different genre? I believe a similar tension between the normative discourse and the spirit of experimentation is at play in most game engine-centered communities.

Insisting on using a certain tool regardless of its suitability for the task is also a sign of loyalty to its community. After I released Xlomidomanad’s Experiments, at least two players questioned the choice of the engine for the game. One of them (who was largely positive about the game itself) wrote: “I would obviously suggest you rewrite your experiment in C, but you would obviously refuse.” I had, in fact, learned C before discovering URQ and could probably rewrite my games in it, which would likely be more efficient both in terms of computational resources and my own effort. Yet I chose not to do so, because it seemed that making URQ games was the surest way of staying in the comfort of the familiar community where I had already established myself. Even the comment itself implicitly recognized that my choice of URQ was deliberate (“you would obviously refuse”).

Contribution to the tool’s development

Probing the boundaries of a game engine’s functionality can be the author’s way to enrich the tool with capabilities they feel it is missing. In my early URQ days, a member of the “inner circle” called Evgeny released a set of animated text effects for URQ (one, for example, mimicked movie-style credits) that could be reused in any game for the platform. As URQ provided no animation capabilities out of the box, this was a quick way for authors to jazz up their games visually.

Several years later, when URQ got a new Windows interpreter that supported graphics, I joined forces with Evgeny to create a game with a custom graphical user interface which did not use any of the interpreter’s built-in GUI capabilities. The game, called Peanut Orchestra, was somewhat clumsy to control—but we did not mind. This was our way of putting pressure on the interpreter’s developer (who was initially

17 Comment by Goraph, posted 10.01.07 at http://urq.borda.ru/?1–0–0–0000200–000–0–0–1191393926.
18 The game was called Peanut Orchestra and is available at http://ifwiki.org/index.php/Peanut_Orchestra.
skeptical) to include skin support, which would make interface customization much easier. Eventually, he did agree to add this feature.

Similarly, above-mentioned scripts enabling *RPG Maker* to display 3D graphics may be a response to the developers’ insistence on sticking with retro 2D visuals. Sometimes, such subversive ideas can give birth to a whole new game engine.

Consider the example of *ZZT* (1991), a “construction set” game which allowed players to make their own text-based games using a simple scripting language called ZZT-OOP. While the original focus had been on ANSI characters (that is, regular letters, numbers, and punctuation marks), users almost immediately started experimenting with ASCII graphics, using DOS’ entire set of 255 characters to create complex visual representations. The limitations of ZZT-OOP (only boolean flags, no persistent variables between levels, lack of functions) soon became obvious, requiring the more ambitious developers to come up with sophisticated and ingenious ways around them. Three years later, Alexis Janson released *Megazeux*, a ZZT clone which responded to the community’s needs by including two major improvements: a more powerful scripting language and customizable character sets, where each symbol could be substituted for a custom “sprite” or part of a bigger “sprite.” This enabled ZZT enthusiasts to produce more complex and visually appealing games while maintaining a sense of loyalty to the original game’s spirit.

![Figure 3. Comparing ZZT (left) with Megazeux (right)](image)

**Self-expression and meta-play**

As the Rube Goldberg machine demonstrates, being impractical can be expressive. Similarly, probing the boundaries of a game engine’s functionality is a valid way of self-expression. In this context, the game maker’s functionality becomes the ultimate creative constraint, prompting the developer to look for hitherto unknown ways around the tool’s limitations. I found a lot of enjoyment in thinking how to trick URQ into working the way I wanted it to—and not the way it was designed to. I was not the only one: there
Mikhail Fiadotau was, for example, a user who initiated a discussion on the URQ forum about “Various tricks and contrivances with URQ code”\(^{19}\) where users were invited to share their technically ingenious code.

It is perhaps this process of creative negotiation of a platform’s technical constraints that most clearly illustrates why programming can be regarded a form of self-expression (Schulte 2013: 21). This view also problematizes the distinction between the artist (whose work is attributed aesthetic value by virtue of belonging to a recognized art form) and the artisan (whose work is based on the application of skill, with the expressive properties of this work seldom given consideration).

Intrinsically connected to the creative aspect is the ludic dimension. The main reason hobbyists put time and effort into developing games in the first place is that they enjoy playing games. Experimenting with a game engine is itself a form of play, or more precisely meta-play, which builds on play’s close link to curiosity and exploration.

Conclusion: probing the boundaries as metacommentary

There are at least three ways to understand game engine functionality: the range of uses envisaged by the tool’s developer; the range of uses the engine is actually put to by the community; and the entire possible spectrum of what can be (but not necessarily is) done with it. Any game made with a specific engine would fall under the last category, but it may miss the first two. This failure to conform is usually deliberate, as deviating from established conventions requires not only awareness of said conventions but also considerable skill in using the game engine.

\(^{19}\) http://urq.borda.ru/?1–0–0–00000384–000–0–0–1316245957.
The deliberate choice to push the envelope of the engine’s functionality and the conspicuous refusal to follow established conventions can be seen as a form of metacommentary on the engine’s capabilities, limitations, and “idioms of practice” (Gershon 2010: 6) associated with it. I refer here to Huhtamo’s (1995: 84) understanding of metacommentary as a “practice which continuously de-mythicises and de-automates prevailing discourses and applications [...] ‘from the inside’, utilising the very same technologies for different ends”. Such metacommentary “probes (and sometimes anticipates) technological breakthroughs” (ibid.): even if many technologically ingenious games are forgotten and discarded, and even if they are not universally lauded by the community, they still enrich the community’s understanding of what the engine can be used for, “conquering” previously uncharted territory and placing it on the map of the tool’s uses. And some of such experiments can directly contribute to further development of the tool.

Figure 5. The impact of convention-subverting games on the community and the game engine

This metacommentary, however, predicates on not only the author’s but also the player’s awareness of the original tool’s conventions. And such awareness is generally only found in the narrow circle of the game engine community. When Ben Croshaw’s 1213 and Trilby: The Art of Theft gained recognition outside the Adventure Game Studio community, their “meta” dimension was largely overlooked, with reviewers focusing on the more conventional metrics of game quality such as gameplay and storyline. My own URQ experiments found little appreciation beyond the URQ community,
as outside the context of the tool’s capabilities and conventions most of them were just unfinished games with gimmicky interfaces.

The probing of boundaries discussed in this article is far from specific to the realm of digital games. In fact, it mirrors observations made by anthropologists studying the transfer of knowledge and innovation in traditional communities. Hosfield (2009: 49), for example, discusses how innovation in traditional pottery resulted from a conscious selection and “adventurous” use of tools. In a similar vein, Ingold and Hallam (2007) also make a case for creativity as “cultural improvisation” rooted in a particular social context. Ingold (2001: 17) also argues against the division between “art” and “technology,” which he demonstrates is a modern Western construct, pointing out that both are parts of the same continuum: that of “skilled practice” (ibid.: 20). The practice of subverting game engine conventions, which defies categorization as either purely “artistic” or purely “technological,” perfectly illustrates his point.

In her seminal *Cyborg Manifesto* (1991: 164), Donna Haraway wrote that “the boundary is permeable between tool and myth.” I understand the “myth” here to refer to the conventions and assumptions surrounding the tool. Taken a step further, this idea can be extended to a McLuhan-esque “the tool is the myth.” That is to say, our understanding and usage of a tool is never independent of the beliefs and values surrounding it. But the “myth” of the tool is not static: it evolves overtime thanks to innovation originating from within the community of the tool’s users. This article, I believe, instantiates this point.

In an age of technological determinism, we need to remember that while technology has undergone dramatic changes in recent decades, the mechanisms of technological innovation in communities of practice have not in fact changed that much. We thus should not ignore the broader social and historical contexts when discussing digital media communities and innovation therein. But we should also look at their specificity and localize them in narrower contexts. Experiments with game engine conventions can (and should) be linked to such practices as modding and homebrew development; they can be considered through the ideological prism of indie games; they can be linked to wider contemporary practices such as remixing. It is by establishing these connections and learning more about the practices they bring together that we can start to fill in the voids on the vast canvas of contemporary digital media production.
References


**Ludography**


**Summary**

Consumer-grade game engines such as *Multimedia Fusion* and *RPG Maker* have dramatically extended the reach of digital games as a medium. They have also spawned online communities, where conventions and canons of using these tools have evolved. These partly stem from the functional constraints of the game engines themselves and are institutionalized through manuals, examples, tutorials, and games made with them. However, some members of game engine communities actively seek to challenge these conventions by experimenting with the engines and finding ingenious ways...
to put them to unexpected uses. Such experiments can be regarded as a form of meta-commentary on the engines’ capabilities and limitations. While arguably impractical and inefficient, they enrich the scope of what can be done with the engine and can contribute to its further development.

**Keywords:** game engine, game development, hobbyist games, participatory culture, platform studies, creativity, innovation, autoethnography

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