

### **Who is this Pippin Barr guy?**

Pippin is an experimental game developer who has made games about everything from *Eurovision* to *performance art* to *dystopian post-work futures*. He's an Assistant Professor in the *Department of Design and Computation Arts* at *Concordia University* in Montréal. He is also the associate director of the *Technoculture, Art, and Games (TAG) Research Centre*, which is part of the *Milieux Institute for Arts, Culture, and Technology*.

### **And what is Devolution?**

Devolution is a project exploring the creative processes and challenges of game development. Each Devolution event investigates the evolution of a game by presenting prototypes, interim versions and conversations with developers. In recent years Devolution has offered in-depth examinations of *The Curious Expedition*, *Shift Happens*, *Thumper*, *SUPERHOT*, *Ape Out*, *Hidden Folks*, *Kingdom*, *Baba Is You*, *Dicey Dungeons* and *Lonely Mountains: Downhill*.

### **Pippin Barr**

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***The evolution of...***

**It is as if  
you were  
making  
love**

**2018**



***Pippin Barr × Devolution***

A MAZE. / Berlin 2025

# 8. file structure

**2018-04-12**

♥ Slider/  
└─── audio/  
└─── css/  
└─── js/  
    └── flocking-all.min.js  
    └── jquery-ui-slider.js  
    └── jquery.ui.punch.min.js  
    └── script.js  
└── .gitignore  
└── readme.md  
└── index.html

**2018-06-25**

♥ It is as if you were making  
love/  
└─── audio/  
└─── css/  
└─── images/  
└─── js/  
    └── howler.core.min.js  
    └── jquery-ui-slider.js  
    └── jquery-ui.min.js  
    └── jquery.min.js  
    └── jquery.ui.punch.min.js  
    └── script.js  
    └── data.js  
└── .gitignore  
└── readme.md  
└── index.html

**2024-07-22**

♥ It is as if you were making  
love/  
└─── assets/css/  
└─── audio/  
└─── css/  
└─── images/  
└─── info/  
└─── js/  
    └── howler.core.min.js  
    └── jquery-ui-slider.js  
    └── jquery-ui.min.js  
    └── jquery.min.js  
    └── jquery.ui.punch.min.js  
    └── script.js  
    └── data.js  
└─── press/  
└─── process/  
└── .gitignore  
└── readme.md  
└── \_config.yml  
└── index.html

**The evolution of...**

***It is as if you were making love (2018)***

All texts and images

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positive message is just a distraction and breaks the flow and you already know you're doing well from the other messages. The text-input dialog is a funny thing and worth exploring, but in this game it feels like it's too much or pulling to hard in a different direction. I'll use it another time.

**Sun, 24 Jun 2018 18:56:05**

Fixed petite mort title for game over dialog

**Mon, 25 Jun 2018 07:35:30**

Updated README

**Mon, 25 Jun 2018 10:44:50**

Updated readme

**Mon, 25 Jun 2018 10:49:55**

Added tracking

**Fri, 10 Jun 2022 13:42:23**

Added info dir

**Tue, 19 Jul 2022 10:56:58**

Updating to new web standard

**Thu, 03 Nov 2022 15:22:46**

Fixed typo

**Thu, 19 Dec 2024 20:56:55**

remove framerate dependence

**Thu, 19 Dec 2024 23:47:21**

add epsilon to handle floating point error  
(I spent a ridiculous amount of time on this, exploratory code in other branch)

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for an overview of the *It is as if you were...* series

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for a series of attempts to crystallise the meaning and intend of the games in short-form writing.

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for others writings about the game.

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for the evolution of the source code.

## 7. press

- Corbinais, Pierre. *It is as if you were making love*. Oujevipo. 29 June 2018.
- Wilbur, Brock. *It Is As If You Were Making Love is complicated at best*. Rock, Paper, Shotgun. 30 June 2018.
- Fraser, Calum. *It Is As If You Were Making Love – Browser Game*. Free Game Planet. 1 July 2018.

## ***It is as if you were making love***

**Fri, 22 Jun 2018 09:22:30**

*Made about text smaller to fit vertically (on my phone), fixed typo, trying a 'no scroll on mobile' approach (position fixed for body and html)*

### **All about mobile**

I really want the game to work well enough on mobile that somebody who chooses to play it that way doesn't view it as utterly broken. I already know that on the iPhone SE (and lower I guess) it doesn't display well because the width of the display is 20px to narrow, leading to overflow. The game is still playable in that scenario, though (no vital UI is blocked), so I'm pretty tempted to not give a shit.

However it would be nice to eliminate the frustrations of the way iOS hides and shows the browser chrome depending on scrolling, so I'm trying to kill scrolling with A Tip From The Internet. Worked in Chrome emulator, but that means exactly jack shit of course. Pushing mostly to test it.

**Fri, 22 Jun 2018 09:51:34**

*Code rewrite to move selection results into a timer set off in slide to attempt to get more iOS sounds working*

### **Why?**

iOS only allows sounds to play when they're triggered by a user event. But I need sounds to play on a delay from user input (e.g. selection is acknowledged a little bit after you select to create the effect of needing to be purposeful). I get the impression that iOS will play a sound triggered by a timeout that's set inside an event handler. It also results in kind of cleaner code I thiiiiink? Anyway, I did this to test my hypothesis and to thus get the feedback 'click' on iOS.

**Fri, 22 Jun 2018 15:06:43**

*Wrote a better game over, moved and rewrote a bunch of code to try to force iOS to play my sounds (specifically the orgasm cacophony), added shake effect*

*for a trembling pre-orgasm moment that quite pleasing*

### **Game over message**

Game over is now an "arousal overflow" which I find pleasing. It's an ending dialog based around a screenshot I found of a Windows-based buffer overrun error. It works nicely as a deadpan ending, with the app itself still orgasming all over the place in the background. When you dismiss the message, the whole thing shuts down. I actually only did it this way in order to be able to turn the sounds off! But it works well.

### **Pre-orgasm**

Same thing as above. iOS sound restrictions require me to induce a click from the user so that I can turn sounds/on off. Notably if I want to set the orgasm sounds in motion, there needs to be a specific user input (a click), so now there's a trembling pre-orgasm dialog (may need better language) that sets it off when you say 'ok'. It feels a little bit teasing/s&m in a way? Maybe it should say "May I?" Huh.

**Fri, 22 Jun 2018 16:52:11**

*The game over dialog title is 'petite mort' (ha ha, because it's a terminal error) and the pre-orgasm asks you to 'push my button' (ha ha, euphemisms)*

**Fri, 22 Jun 2018 17:01:42**

*Made some small adjustments to widths (and to the about text) to fit the game on the iPhone SE screen size, which is the lowest I plan to support*

**Sat, 23 Jun 2018 21:37:23**

*Edited about text, removed positive feedback and input dialog boxes*

### **About text**

Just some tweaks to try to really nail the language. Think it's pretty much there now.

### **Dialog boxes**

Decided after some testing with J+M that they're too intrusive when they show up while you're being successful. The

## **a note on the text**

This booklet is based on the process documentation wiki for the game ***It is as if you were making love***. The original process documentation is the result of following the **MDMA** (Method for Design Materialisation and Analysis), an approach to game design recoverability that forms the basis of the **Games as Research** project that **Pippin Barr** is a part of along with **Rilla Khaled** and **Jonathan Lessard**.

The text presented here has been edited for print, but remains as close to the original as possible. Its main purpose is to provide the original material for exploration, the data is preserved **as is** and not updated.

## ***It is as if you were making love***

found a stand-alone hand and a computer with what kind of looks like fireworks on its screen (maybe for a screensaver or something?). I combined those in Pixen to end up with a hand kind of caressing the computer which erupts in fireworks? At least that's what I see.

**Thu, 14 Jun 2018 10:50:39**

*Built a horizontal slider prototype*

### **But why?**

I'm in conversation with Jim and Mary (my parents) about the gendered nature of the vertical slider. Had the important experience of Mary pointing out that sliding the vertical slider has different connotations for her as a woman. I'm trying to walk this line of the interface evoking the biological kind of sex and drawing on the eroticism of that, but without wanting to slide into the 'masturbating a male interface' chasm because that will really alter the experience for a lot of people and not in a way that I think is the right direction for the overall idea behind this project. Specifically, if I want it to feel like 'pleasuring a computer because pleasuring other people (or things?) is a pleasure' then it needs particular kinds of inflections. If it feels like a chore, or a gross patriarchal or gender normative thing, then it's going to lose that sense.

So I've made the slider horizontal as a test to run it by people. It maintains the important (I think) quality of still being a real-time and continuous form of input (unlike other UI elements) which I find important or at least interesting for the sexual nature of things. But by not being vertical it's at least not immediately like an erect penis? I mean, who ever thought I'd be writing about things like this in a git repository commit message? Not me. But it's also kiiind of amazing I haven't explicitly addressed this much until the 'end' of the project. We'll see whether this issue ends up requiring more radical redesigns, but it's becoming clear that I

suspect can't just go ahead with the vertical... argh.

**Fri, 15 Jun 2018 17:23:01**

*Relabelled slider to go from -5 to 0 to 5*

### **Relabelling**

As discussed in my journal etc., the idea here is to make the slider symmetric rather than have an obvious 'base' and 'tip' that might imply penis. The symmetry perhaps makes it more like other erotic body parts and thus hopefully pulls focus from any penis-y feelings that the movement of the slider probably still evokes...

**Thu, 21 Jun 2018 21:55:05**

*Created a separate data file for text, rewrote all texts, adjusted stroke difficulty, made multiple games possible*

### **Rewriting**

Pursuant to the large amount of soul-searching about language alongside good feedback from a number of sources (notably Jim, Mary, and Jess), I tried my hand at a serious rewrite of the language in the game to set a more 'accurate' tone to the idea behind the software. I think it's significantly better, but it needs to be tested. (I won't lie, though, I'm feeling pretty fatigued by this at this point, so can't guarantee I've genuinely done a good job.)

### **Stroke difficulty**

Jim and Mary both had trouble with the fast strokes, so I made them easier – it's not really about being 'good at it', just about distinguishing fast and slow.

### **Multiple games**

The icons don't vanish from the desktop and clicking the app icon resets the game so you can play again right away if you want. That kind of accessibility makes a lot more sense to me in the better-defined context of the game. It is in service to the human (even as they service it).

**Thu, 21 Jun 2018 21:57:17**

*Put the arousal stroke back to correct value for testing.*

# ***It is as if you were...***

This booklet is a part of the exhibition *Pippin Barr × Devolution: It is as if you were... at A MAZE. / Berlin 2025*, which explored and exhibited the development process of the *It is as if you were...* game series by Pippin Barr.

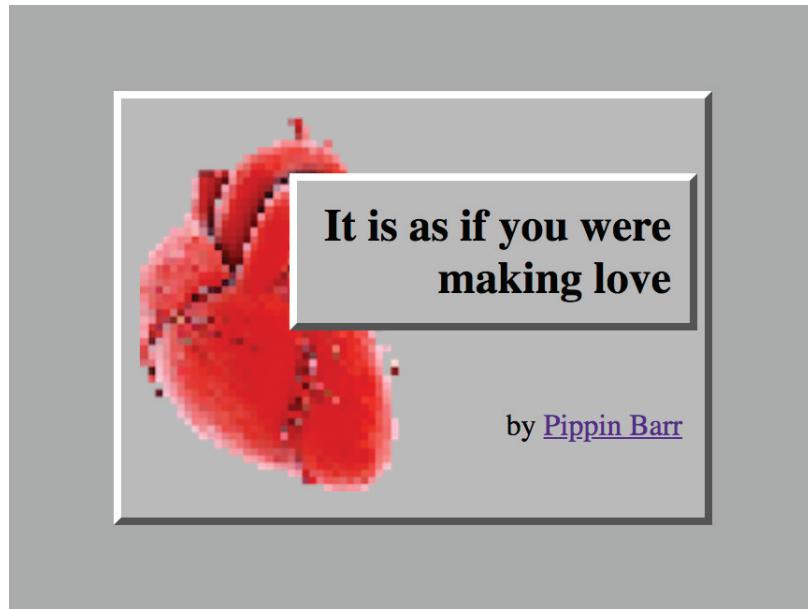
-  **It is as if you were/** (2016)/
  -  **playing chess** (2016)/
  -  **doing work** (2017)/
  -  **making love** (2018)/
  -  **doing paperwork** (2022)/
  -  **playing a text adventure** (2024)/
  -  **on your phone** (2025)/
  - 

Read Pippin Barr × Devolution: *It is as if you were growing stuff\** and the other booklets in this bundle for additional context on the exhibition and reflections on how games evolve in conversation with their material.

Visit the [repository of the exhibition](#)<sup>†</sup> for the real experience, including ongoing information and reflections.

\* Barr, P. and Devolution (2025). *It is as if you were growing stuff*. Berlin: Devolution and the Dessauer Press. (Pippin Barr × Devolution: It is as if you were...)

† [github.com/csongorb/growingstuff](https://github.com/csongorb/growingstuff)



**About**

Welcome to *It is as if you were making love!*

While physical intimacy between humans is almost extinct, we understand you maintain a biological and psychological need to give erotic pleasure.

We have created *It is as if you were making love* to provide a usable and efficient experience of pleasing a partner without the distress and dissatisfactions of a physical body to navigate.

Feel free to launch *It is as if you were making love* whenever you experience nagging doubts about your identity as a sexual being. We suggest using headphones when in public.

Remember: you are human and you are a lover.

**Okay**

### ***It is as if you were making love***

I have concerns/thoughts about tuning the language, and there's of course tuning in terms of the frequency of the dialog based feedback in particular since it's pretty disruptive. Though they at least don't interact with the stroke timer, so you don't get penalised in that way (and notably it doesn't affect entropy).

#### **Arousal entropy**

After thinking I wouldn't have it in the game, I've added the idea that arousal diminishes over time if you just leave the system alone. There's a threshold and then it starts to decline, based on the current stroke time. So if you just stroke and then don't do anything, then eventually arousal drops toward zero. But there's room for a little breather at least. Note that this conflicts with an idea I had that there would be an instruction to just leave the slider completely alone as an erotic act, but I think maybe that's too complex at this point, too 'hard' for the user to do? I'll think about it.

**Tue, 12 Jun 2018 17:31:22**

*Added the orgasm*

#### **Consider the orgasm**

Hoo boy, that was a flurry of programming. Integrated pretty much what I said I would in the todos so that the game now actually has an ending. So when you reach an arousal level of 1.0 you get a kind of 'spasming' of the various UI elements that 'makes sense' for – sounds, the slider setting, the slider target, the radio buttons, and the messages field. I think there's some work to be done in terms of tuning it, particularly the idea of the cooldown, which right now feels not ramped quite right – I think we need to dwell in the end of the cooldown longer, those final twitches. But overall the orgasm state is... honestly it's pretty good.

#### **Consider the post-orgasm**

Right now once the orgasm is done the whole app shuts down, returning to an

earlier idea I had that it would be kind of 'selfish' about things and just leave on completion. I mostly did this because... it's easier right now and it feels like a complete narrative moment? So it shuts down and then there's a "Thanks for playing!" dialog that pops up, and when you close that it's the shutdown sound and that's that, no ability to restart the game or anything.

I'm wondering about

- Do I implement the version where you can make a date to meet again?
- Do I implement the idea of the UI having a cooldown between sessions so you can't just reload it and go again? (Is this interesting in this context, or just me wanting to be Robert Yang?)

#### **Language**

The language needs a buuuuunch of work mon frère. I know that and you know that.

**Wed, 13 Jun 2018 08:03:48**

*Added readme, readme icon, new app icon*

#### **Readme**

As with the Work game, I wanted to have some kind of diegetic text that explains the nature of the application and situated the speculative play aspect of things for anyone who might be interested. Again it's a kind of *readme.txt* you can check out before playing, totally optional. I mirrored the style of the Work text and I think the argument made is pretty reasonable (I mean makes sense, obviously). It was a real challenge getting a text that would be short enough to fit on a mobile screen and the iPhone 5/SE still elludes me (for the entire UI acutally, not just the *readme*).

#### **Icons**

I used the standard windows "text file" icon for the *readme*, unsurprisingly. Once I had that in, the app icon looked a bit weird and not so nice, just because I'd repainted it rather than using a pure icon. As such I went back to original icons and

now whether the icon for the application should be the/a heart too?

**Fri, 08 Jun 2018 20:25:35**

*Added tracking of stroke speed, changed to a single "messages" panel*

#### **Stroke speed**

Added the idea of fast/slow/indifferent and timing how long each stroke is. Track number of 'bad strokes'. Set up to be able to give feedback of the player based on all of this.

#### **Message panel**

Started to feel like it was redundant having the two panels. And 'messages' is a really fun name for an output.

**Tue, 12 Jun 2018 12:28:40**

*Added breathing sounds*

#### **Breathing**

I added breathing sounds because breathing is a pretty important part of making something feel organic, and of course because breathing is a big part of representing exertion and, in this case, arousal. It's a way to make the game sexier outside the obvious confines of the user-interface which by its nature needs to be pretty blank. I am, however, still using a Windows sound as the breathing – it's called ir\_begin (presumably played when an ifra-red thing is about to transmit, all very erotic in itself). By playing with the pitch and pacing and volume of the sound I think I'm able to get something that sounds fairly close to breathing, which is neat. By speeding it up and pitching it up etc., there's a definite sense (I think) of increased arousal from the interface... it takes it somewhere much more intimate and gives you some actual feedback on how things are going!

**Tue, 12 Jun 2018 13:14:53**

*Added text input request with random requests and hints, added positive feedback phrases (but not implemented yet)*

#### **Text input**

Created an array of text input requests designed to help the player feel more involved by 'expressing' themselves in words. "I want you", "I need you" and so on. Did some of the obvious regular expressions stuff to give the player *some* leeway with how they type it in, but also like the idea that they have to type *exactly* the right response. If you get it wrong twice the system will just tell you what to time, which is also funny, like someone guiding your hand – "ugh, just do it like this!"

#### **Positive feedback**

Added a bunch of phrases that can be popped up at random intervals to emphasise the sensuality of the experience for the computer side (or at least its feigned engagement at that level). Have to continue to think about the language here as right now it's *really* suggestive, like "keep sliding me"... need to think about whether I want that or whether it should be a little less obviously kind of human. Should it use metaphors and language from an operating system/piece of software? It's a question.

**Tue, 12 Jun 2018 15:19:02**

*Added feedback messages, feedback dialogs, arousal entropy*

#### **Feedback messages and dialogs**

The game now gives feedback for poor strokes (too fast, too slow) and good strokes (on target). Feedback can be either an update in the message field (including a flash so you actually check it), or a dialog box if it's particularly important (if you have multiple bad strokes or if you're doing well over time). It feels like it makes a big difference to the experience and the flashing message box actually works really well for foregrounding that UI element and helping the player pay attention to it. Who knew that a tried and tested form of UI design would be effective? Eh? Not me.

# **1. press kit**

*Physical intimacy is a thing of the past! Finally! But wait! Why do you feel so alone?! You want to touch someone?! Make them feel good?! But you don't really want to actually have to touch someone?! You don't really want to deal with another human?! Well you're in luck! With this new application it is as if you were making love!*

*It is as if you were making love* is the sequel to *It is as if you were doing work*. It is an application from a near future in which humans have lost the interest and will for physical sex with other humans. The application provides you with the experience of erotically pleasing someone without the involvement of another human being, replacing that role with a user-interface.

#### **The basics**

- Developer: *Pippin Barr*
- Release: Thursday, 28 June 2018
- Platform: Browser (mobile- and tablet-friendly)
- Play online: [pippinbarr.com/itisasifyouweremakinglove/](http://pippinbarr.com/itisasifyouweremakinglove/)
- Code repository: [github.com/pippinbarr/itisasifyouweremakinglove/](https://github.com/pippinbarr/itisasifyouweremakinglove/)
- Price: 0.00

#### **More**

*It is as if you were making love* is a game posing as an application from a near future in which humans have lost the interest and will for physical sex with other humans. Whether this is through distaste or for other reasons is not

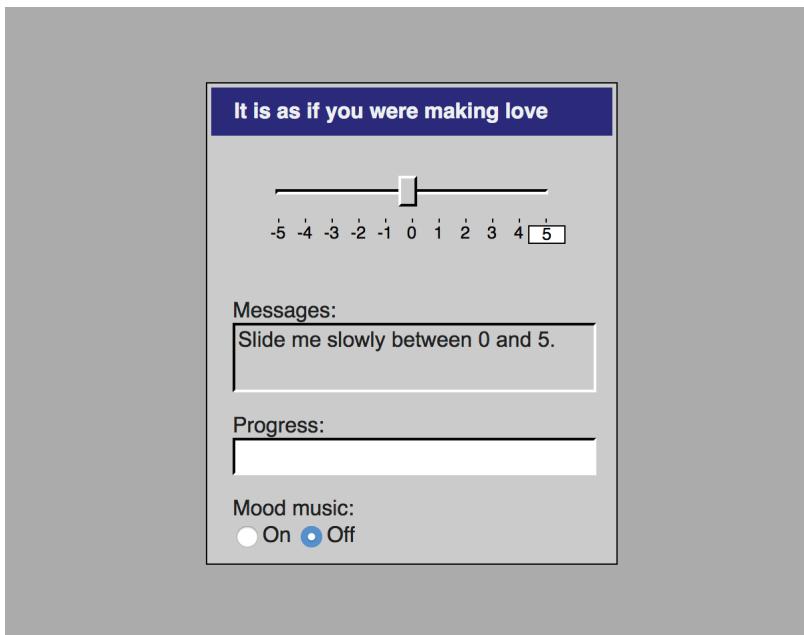
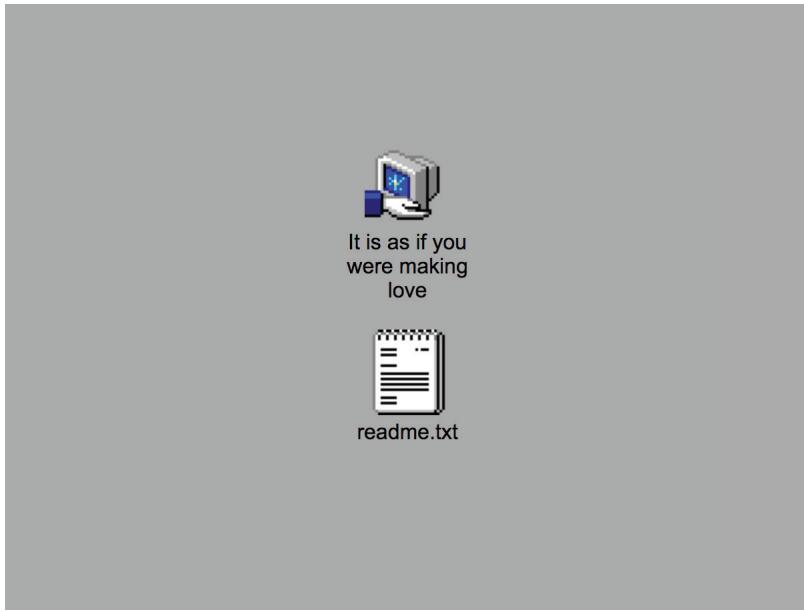
made clear. The application promises to provide humans with the experience of erotically pleasing someone without the involvement of another human being. The experience is created as you interact with a set of standard user-interface elements styled in the tradition of a classic operating system along the lines of Windows 3.1 or 95. The major input element here is a slider, which is used to sexually please the interface, while other elements such as a text-field, a progress bar, and dialog boxes provide feedback on your success.

You will know when you have 'won'.

#### **History**

*It is as if you were making love* began life as a game idea in my notebook that simply read 'UI COMPUTER SEX

### ***It is as if you were making love***



### ***It is as if you were making love***

*improved slider positioning and dialog positioning*

#### **Icon**

The game now starts as an icon on an empty 'desktop'. The current icon is taken from some semi-random set of Windows 95 (ish?) icons, it's an edited version of a human hand holding up a printer. I removed the paper coming out of the printer so now it looks like (to me) a human hand holding a computer, which is kind of a nice 'loving' image perhaps? I'm not 100% happy with the aspect ratio of the image, because it's a bit flat and doesn't quite read as much like an application icon as I want. I can fiddle with that.

The icon-launching version did turn out to be necessary because iOS won't let you play sounds without some kind of input event. So now clicking the icon is the thing that starts everything rolling and from there it should just work.

#### **Positioning**

Nothing so interesting, just making things work better.

**Thu, 07 Jun 2018 14:26:45**

*Added mood music radio boxes and function*

**Fri, 08 Jun 2018 16:26:02**

*Added more controlled stroke ranges and strokes required, stroke timer, rearranged code, added title splash*

#### **Controlled strokes**

Now have stroke ranges and numbers set up with arrays so that it's easier to tune to specific stroke formats and numbers, it works well I think and makes more sense in terms of being able to control the experience the player's having – there are particular kinds of strokes that are sexier, I think, than others (e.g. 0 to 10 is hotter than 1 to 7, say). I mean, this is getting pretty weird, but I think it's true. Likewise, the number of strokes required is a finesse thing – you particularly don't

want too few I think, though perhaps occasionally it's good.

#### **Stroke timer**

Not doing anything with it yet, but the code now counts frames between selections so you know how long a stroke took. I was impressed by how it felt like something even to do that. And actually this makes me wonder whether actually displaying the current average stroke time or something makes some sense? Will think about it. Could be part of the feedback? Like "slow down, you're going at X-strokes-per-second"? This also points me at another problem which is how likely the player is to pay attention to the speed feedback. Should that be more front and centre with the slider? I feel like I'm gradually obviating the instruction panel though? Need to think about that more...

#### **Title splash**

Wanted to have one of those retro 'card style' splash screens while the application loads. Ended up using Microsoft Windows 6.0 as a reference point, which has mostly text and then a clip-art drawing of a pen (e.g. a kind of indexical sign?). Created something roughly like that but with a picture of a human heart (pixelated). Originally used a really amazing, bloody pig's heart an artist had taken a photo of, which looked very good, but for copyright purposes went across to a royalty free image which works well too. Definitely adds a lot to the idea of this as 'real' software, so I think that's a big win. It's fun.

Note that in using the image of a heart as an organ I'm sort of gesturing toward this idea that the software is machine-made in some way and that they've made a slight error in picking the wrong kind of heart. It's not clear to me how far down that road I want to think (like 'what would the AI do/design?'), but I find it amusing, and it signals something 'weird' is going on from the beginning. I wonder

## *It is as if you were making love*

the number of desired strokes to a higher range so you can get into a good rhythm for a while before it requests something new. Sexy?

### **Target formatting**

Had a conversation with Jonathan over coffee about how to show the target. It's kind of painful, but you also kind of accept whatever it is. I added a border to the selected one which kind of feels better somehow, less arbitrary? Could even be that it doesn't need anything more than an outline, not even a background colour. Hard to say, but I'm fairly happy with it for now.

**Wed, 06 Jun 2018 16:15:48**

*Did initial work to make it cross-platform, added modal 'tell me you love me' dialog*

### **Cross platform**

Basically just shifted it over to a set pixel width instead of using viewport. It's hacky but it does look pretty acceptable across platforms now and it's exact. I'll have to test it on a real phone, and for some reason it's not centring on an iPhone SE (in emulation), but largely it seems pretty effective and it would be a huge relief not to have to fuck around with this too much.

### **Modal talk dialog**

Added a basic dialog box that pops up over the interface and interrupts everything (including sending a fake mouseup to the slider so you can't keep or resume sliding) and asks you, for now, to write "I love you", though of course I'll want that to be minimally procedural. I like the idea of an interrupt like this to break the flow of things, and it's a key opportunity to have the player express themselves in a different way. It doesn't contribute to arousal but is rather a way to have a different form of input that commits you to the experience more...

**Thu, 07 Jun 2018 11:51:46**

*Added sound effects, music and a embryonic title screen*

### **Sound**

Took the first step of inserting a bunch of Windows 2000 sounds into the game in 'appropriate' situations. Some of them match the *Work* soundscape, such as the dialog-opening sound and the correct/incorrect button sounds. But there are new ones like a click for acknowledging the slider when to the right location, a notification sound for when the range shifts and/or you make progress on the progress bar, a startup sound that plays while a title card fades in.

### **Music**

Created some smooth-ish jazz on *Wolfram Tones* and have that playing after the title when the application itself opens. It doesn't sound *quite* right yet, but I think it makes a decent amount of sense. I guess you could have a button/check-box that enables or disables 'mood music'? Might be pretty funny. Default it to off. Yeah that makes better sense. Here we are, designing in a commit message, just like MDMA taught us. Getting the music to loop clearly required installing *howler.js* which seems to do a really nice job of it, god bless other people.

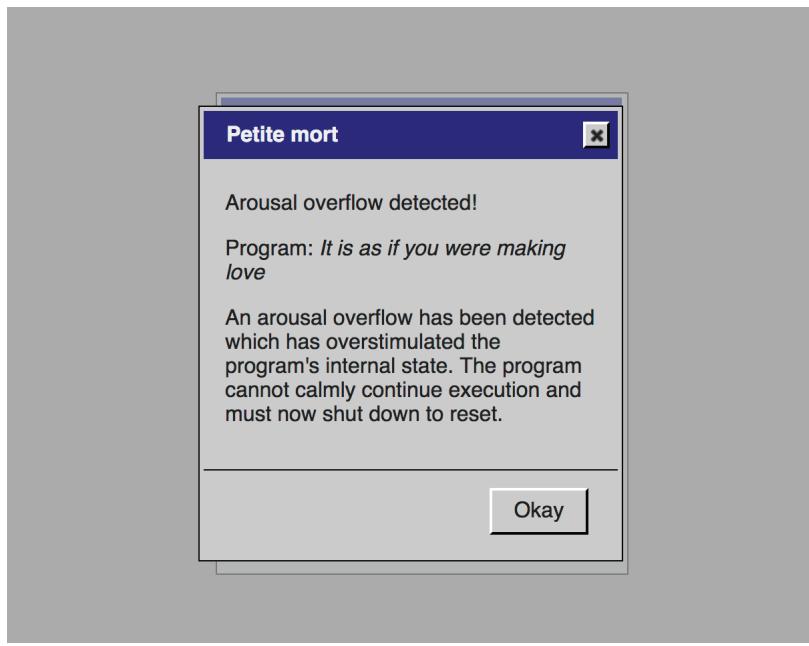
### **Title screen**

Just an idea for now, but as a consequence of having a startup sound you need an actual startup. Earlier I'd thought about maybe presenting a desktop icon for the application the user would start up (and still could need to do this pending issues around sound triggering on iOS for example?), but for now I'm going with the way shitty Windows programs load with that awkward application card that appears in the middle of your screen while the application loads. So I've got a kind of simulated version of that for now that fades in to the startup sound, then goes away when the app window pops up.

**Thu, 07 Jun 2018 14:04:10**

*Added icon that launches the application,*

## *It is as if you were making love*



GAME: a button yes yes yes yes YES!. I was interested in how I could (or could not) convey an erotic experience through a decidedly unerotic set of interface elements, initially a button, but later a slider (with other ideas along the way). Much of the inspiration for this also comes from the webgame *Sepe's Cumshot* (extremely not safe for work), which I found very compelling in its ability to make me feel awkward but also the sensation of giving pleasure to another entity. Naturally, a lot of the work for this in *Sepe's Cumshot* comes from its representation of an actual human body, so I was curious about the idea of removing the visual reference but keeping the experience.

Like any project, *It is as if you were making love* changed over time, but the fundamental question stuck. Eventually I decided it was the sequel to *It is as if you were doing work*, which included the realisation that I could use the same early-Windows style of graphical user-interface (though that came with its own weird problems). As such, *It is as if you were making love* came to be positioned, like *It is as if you were doing work*, as a form of *Speculative Play*. That is, it is a playful, interactive experience that seeks to comment on the present by representing itself as an artifact (application) from a possible future – in this case a specific meditation on sex in the context of technology and automation.

The documentation surrounding *It is as if you were making love* in the code repository is part of a process documentation approach developed with my colleagues *Rilla Khaled* and *Jonathan Lessard* called the *MDMA* (for me it stands for *Method for Design Materialisation and Analysis*) and it forms a fundamental part of our *Games as Research* project.

### Technology

*It is as if you were making love* was written in JavaScript and HTML using *jQuery* and *jQueryUI* for its basic functionality and user-interface elements, *jQuery UI Touch Punch* to help it work on mobile devices, and *Howler.js* for some audio handling.

### Features

- Horizontal slider!
- Progress bar!
- Text area!
- Dialog boxes!
- Desktop icons!
- Sex!

### Credits

- Pippin Barr: everything...?

### Testing

- Jim Barr
- Mary Barr
- Jess Rowan Marcotte
- Rilla Khaled

that aren't dismissable and just represent an output for the system to indicate how things are going. They can disappear on their own over time and the player could move them out of the way. Have to consider, though, how this would play out in mobile? The dialogs may be too dominant in that scenario.

? Continue to lose serious time in CSS styling woes with these kind of overcomplicated libraries to emulate uncomplicated UI setups. There's probably some delicious comical irony in there, but it doesn't register as fun while I'm doing it.

**Wed, 06 Jun 2018 09:54:53**

*Created 'app version' with the UI inside a window, styled instructions/feedback, added progress bar*

### App version

As per the design journal, I've been feeling like the slider on its own in the centre of the screen looks too isolated and too close to a potential 'slickness' that seems to reflect a more contemporary style and thus to evoke associations/connotations/expectations I don't want. By moving the slider and other UI inside a typical win95 style window, I think that assumption gets broken pretty effectively. I actually quite like the observation that the title in the menu bar gets abbreviated with an ellipsis on mobile, that has a realness to it that I appreciate.

### Styled instructions/feedback

In keeping with this aesthetic change, I gave the instructions a bevelled border in the same way as the slider, mimicking the win95 approach. Made the background of the text field grey because I feel like that indicates text that is output from the computer, that could conceivably change, but that cannot be edited? Not sure where that assumption is coming from, particularly the idea that it can indicate something dynamic. Log files maybe?

### Progress bar

Added a progress bar officially and again styled it as per win95 (they have a white background, garishly). The progress bar is kind of a nice symbol of the simplification of this game, moving away from ambiguity and the sexiness of not knowing to certainty and the sexiness of knowing. Makes my life easier and it's good to have that symbolised right there in the UI in case I forget!

**Wed, 06 Jun 2018 11:58:45**

*Shifted to a set of labeled UI elements, gave up on indicating target on slider itself*

### UI change

After a conversation with Rilla about the affordances and meanings of the UI, trying to embrace win95 specificity even more by having the UI more explicitly divided into different elements/panels. So now there's a slider, then a 'instruction' text panel, then an 'output' text panel, then a progress bar, all labelled explicitly. I've tested out the basics of how it feels to watch the instruction while sliding the slider and it seems more or less okay – a bit worried it could break the flow too much, but we'll just have to see further down the line.

**Wed, 06 Jun 2018 15:34:37**

*Added a minimum number of frames to hold selection for it to count, fiddled with target formatting*

### Selection timer

Trying to avoid the situation where someone can just blinding slide the slider up and down and not care about what it wants. By setting a minimum number of frames you have to hold the slider in position, you can't do that any more. By making that number of frames quite low, you can maintain a good fluidity of motion if you want to, and this allows for the idea of being too fast as well as too slow – it feels less plodding. Especially if I increase

**Mon, 02 Apr 2018 18:08:25**

.gitignore

**Mon, 09 Apr 2018 14:14:55**

*Added slider pips to represent numbers*

In order to have precise instructions I added a jQuery plugin that added pips and numbers to a slider. This allows the interface to specifically talk about specific locations in a precise way (rather than "top" or "bottom" or more suggestive language like "tip" and "base")

**Mon, 09 Apr 2018 18:01:19**

*Added pip highlighting for ranges of values rather than precision*

Allows for a sense of selecting elements more loosely which will allow for more expressive movement on the slider and feedback.

**Thu, 12 Apr 2018 13:46:20**

+ Added simple generation of upper and lower range + instructions + detection of successful number of strokes. + Added simple connection between sliding to correct next value and tone synthesis for feedback.

? Ran into the kind of obvious issue around precision. It's easy to slide beyond the upper and below the lower and still catch them 'successfully' making the whole thing kind of loose. On the one hand, that seems good in the sense that you should have some play in the system, but on the other hand it maybe makes any given motion less meaningful. It did feel kind of unnatural, though, to try to slide very specifically between a set range.

? I wondered whether it might be better to have a visual indication of range rather than the numbers (and maybe even not having the pips and numbering on the slider) as a way of making it feel a little more "naturalistic"? But do you just end up in the same situation? And in a way aren't the numbers better for maintaining this idea of interface and computation as opposed to things that might be more overtly user experience-y or even organic?

? The synthesis tone changes are quite satisfying and I can imagine that the base frequency going up with arousal will sound pretty appealing (possibly even introducing harmonics now that I think about it?).

**Thu, 12 Apr 2018 13:55:15**

+ Added *annyang* to the project with basic ability to listen for sexy words and recognise them | Tidied up code, added some commenting etc

? Nothing particularly design-oriented happened on this step.

**Thu, 03 May 2018 16:31:57**

Moved to Windows 95 styling, added dialog generation from Work game to test, moved to 10 settings instead of 100, added local versions of libraries

? There's a distinctly different feeling involved with the win95 aesthetic. I'm not 100% sure that it makes total sense to me yet, but it's approaching something that's looking more like it has a personality and some kind of grasp on a reality. It's not so clear that this aesthetic 'make sense' for this application, but even just to position it as a proper sequel/co-existent of *It is as if you were doing work* feels like a valuable addition.

? In moving back to the "only 10 settings" version of the slider the experience is of course much more janky and unsmooth... but I'm beginning to wonder whether there's something nice about that. It brings the computer back in a way, less evocative of a biological pleasuring and more of a computer pleasuring with ten unit settings. Makes more 'sense' perhaps in terms of this balancing act between wanting it to be actually sexy and wanting it to be actually computational feeling. Hard line to walk.

? Confirmed that when a dialog pops up it doesn't steal focus from the slider, which means it's possible to bring up dialogs during play without ruining the user experience. Pondering the idea of dialogs

## 2. manifesto

**2018-04-23**

**14:34, Monday**

*It is as if you were making love*

- a spiritual sequel to *It is as if you were doing work*
- What if we lived in a future where physical intimacy has been so diminished by technological intermediaries that we need a software interface to simulate it?
- What if we don't plug our genitals into technologies (or technologies into our genitals) in order to receive pleasure / what if what we really want is to feel that we are giving pleasure?
- What makes a user-interface feel good sexually? Interaction. Sliding.
- How far is too far with the metaphors? How much anthropomorphisation is too much?
- What would a user-interface do to show it is receiving pleasure? Output. We scan the APIs available for output. More output is more pleasure?
- If the user-interface doesn't really feel pleasure (it doesn't really) but only pretends to for the pleasure of the user, how do we navigate that in our creation of the tool? How "knowing" does the game itself need to be about the deception? Not very, it should be completely from this speculative future.
- Mobile friendly is a must. Fingers stroking screens. Erotic pink noise

coming in the headphones. Orgasmic dialog boxes flooding the window. A vibration. A sinusoidal scream of pleasure. Yes. Yes. It was optimal. Thank you.

**2018-05-03**

**15:02, Thursday**

- It's a sequel – sequel to *It is as if you were doing work*, same universe, same basic purpose: to replace a missing quality of daily existence, this is why they should have resemblant UIs
- Giving pleasure > getting pleasure – it's more erotically interesting to be giving pleasure, it's also something that's 'possible' to simulate in a way that getting isn't really, giving pleasure is active, it lends itself to interactivity
- How does a computer receive pleasure? – part of the fun here is that we're imagining how a computer would receive pleasure (via a slider), but also we're operating at a meta level of this: we're trying to represent a human-oriented version of how a computer would receive pleasure (not to imagine how a computer would 'really' receive pleasure), but with enough reference to the 'reality' of the computer to make it stick. Complicated.
- How does a computer exhibit pleasure? – as above, what would it

### ***It is as if you were making love***

mean for a computer to show it was aroused, near to orgasm, etc.? Again this needs to be a semi-winking version of this – not how one would really exhibit pleasure (if that makes sense), but how we can exhibit in a way that makes sense to a human experiencing a computer experiencing pleasure

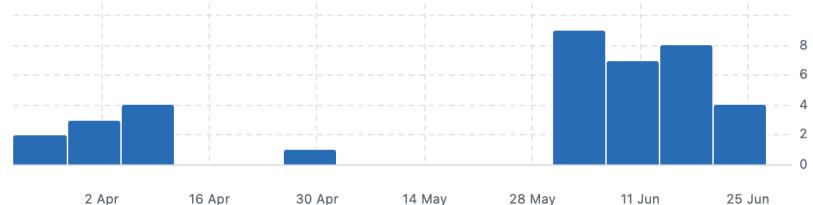
- Audio is important – the visuals are necessarily restricted to rather non-erotic forms (the slider, textual instructions, perhaps some animation, dialog boxes?, progress bar?), and audio is an erotic form that can help spice things up. Noise breathing. High pitched sine wave squeals.



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# **6. commit history**

## **Overview**



## **Messages**

**Wed, 28 Mar 2018 15:33:17**

*Initial commit*

**Wed, 28 Mar 2018 15:34:56**

*Initial commit*

A basic working jQuery UI slider with CSS styled to look innocuous.

**Mon, 02 Apr 2018 09:38:40**

*Added shivering and pulsing tests*

Started the process of adding actual output modalities to see how they feel and to test key issues like whether you can still slide the slider if it's animating.

Both pulsing and shivering look pretty effective (and work with sliding).

**Mon, 02 Apr 2018 16:21:23**

*Added twisting, gradient BG, knob colour animation, blinking, breathing; Changed pulse and shiver to CSS animation*

Tidied up a few ideas by using CSS animations more for the various effects – at the very least leads to cleaner test code while I'm working this stuff out, though

it's clearly less flexible programmatically if I want to tweak values based on what's happening in the game.

Currently I'm seeing myself as just adding a bunch of basic output modalities to start to get a sense of how it feels. Already wondering whether I'm straying too close to a human-like output form (notably the breathing and blinking). Also wondering if it's just too over the top right now.

A good choice is always to strip back, so I may want to take that step again soon, but I do need to make sure I have a way of making the interaction actually feel like something. It still feels a little frictionless and a little undirected. It would make sense for the interface to have desires that can be communicated, rather than be a black box?

In which case literal instructions? "Slide me between 3 and 5"? That's very sexual immediately. Things to think about. Really need to write a journal entry about this at this point.

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- Make a proper title card for when it's 'loading'
- Add speed requirement (just slow, normal, fast perhaps - or even instead of normal just 'indifferent') and checking (maybe you have some number of 'bad' strokes before it notifies you, reset at each preference change)
- Pretty sure it's possible to have a new range start with the selection you're already on? Bad. Easy fix too.
- Add breathing sound fading in to progress (first approximation can just be a straight progress=volume)
- HAVING PLAYED MORE I THINK I DISAGREE WITH THIS NOW Think about speed in relation to range size (slow on a short range kind of sucks)
- Add ability to notify player of desired pace and range (e.g. in instruction try 'Set me between 0 and 10 in fast alternation')
- Add array of text input requests and correct answers
- Add array of no-input dialog texts that are rewards for good play? (Bit weird if they interrupt, maybe not?)
- Add ability to notify player of failure to match pace (e.g. in output), which builds to dialog notification
- Add ability to notify player of good performance (maybe based on error rate) in output and in dialog
- Consider a cooldown after all? Just a simple arousal going down over time, not as a punishment, but as an expressive possibility for the player?
- The basic orgasm
  - Add ending as dialog box (tada, thanks), closing the dialog plays shutdown sound and goes back to desktop
  - Add sound constellation to ending
  - Add slider value twitching to ending
  - Add diminishing of ending
- NO Add idea of application needing a cool down (an hour or so?)?
- NAH Add idea of setting a next date?

## 2018-06-25

- Create blog post
- Add to TAG and Speculative Play
- Send to press etc.
- Add a `readme.txt` to the desktop that contains diegetic information about the experience
- Speed up the slow? Slow down the fast? (Different values for mobile?)
- NAH FUCK OFF Pips on both sides for mobile? "Handedness" as a UI element to position them? (ha ha, but probably really not enough room in the UI)
- Work on the language a lot
- YOU KNOW WHAT? NO. IT'S PLAYABLE AS IS I BELIEVE? THOUGH SHOULD DOUBLE-CHECK ON ACTUAL DEVICE SHIT Try to deal with the screen size of the iPhone 5/SE (sigh)
- Check how well it renders on my phone
- Consider issue of height of About (even on my iPhone when the full browser UI is visible you can't see the full about, though you can see the full app) - smaller text? less text?
- NOPE Can you bear trying to restyle jQuery version of radio buttons to have them look more 'authentic'? (Almost certainly not.)
- Check actual visibility of UI on iPhone SE (is it too long vertically? How fucked am I on the SE?)
- Think about sound issues on iOS - test when and how you can trigger sounds in slide event (guess it's maybe a version of mouse-moved?)
- DID IT Consider removing positive feedback and input dialogs as too distracting
- THE ABOVE SHOULD ELIMINATE THIS ERROR Fix glitch where you can end up with a feedback dialog still visible during the end game, confusing things and creating dual modals (this would be eliminated by the above decision if made)
- SURE Make a trailer
- NO NEED, IT'S RAINING NOW. Pray for rain
- Take screenshots
- Write the press kit

# 3. journal

## 2017?

### In the beginning

Here is the original game idea from my Things Game Ideas list (opposite).

### Saturday, 24 March 2018

#### In which a bunch of early design notes from the iPad

See pp. 14–17.

### Friday, 30 March 2018

#### In which some more design notes from the iPad

See pp. 17–18.

### Monday, 2 April 2018

#### 17:53 – In which I set down the lay of the land and think about title, references, and what's needed

So I have officially started this project gently over the last couple of days, gathering my strength after the kind-of-disappointment around *Tanks!?*, a game I think was very interesting but perhaps only to me.

At present I have a generic-looking, vertically-oriented slider and the ability to toggle a few different audio-visual effects as I try to get a sense of what kinds of feedback might be possible within the technology.

I'm using jQuery and jQueryUI again to create this, and a bunch of the

effects currently are just CSS animations. So it's pleasingly simple in terms of technology, certainly related to *It is as if you were doing work*.

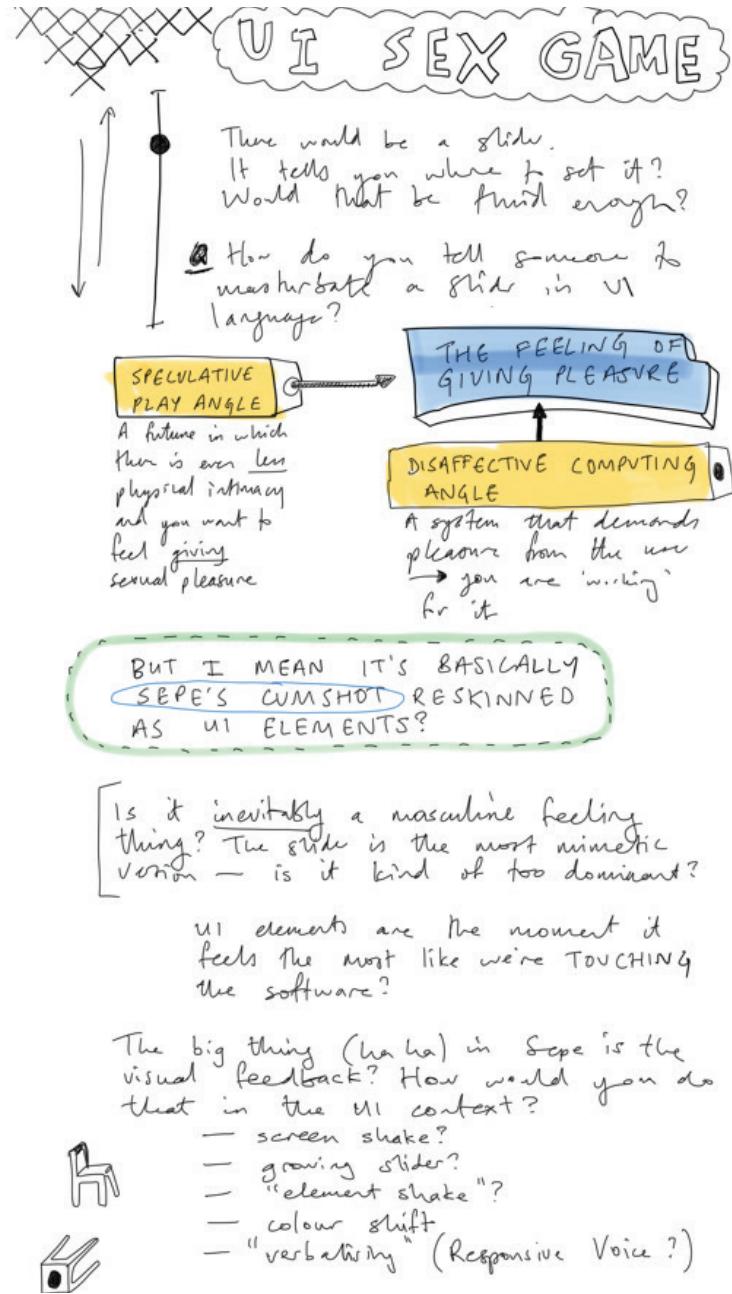
### Title

I started out with the project being called *Slider* to have something generic that wouldn't colour the experience, but it's fairly clear it belongs in the *It is as if...* series and so needed that shape of title. I've settled for now on *It is as if you were making love* as a way not just to indicate the basic function, but also to try to tinge it in a direction that's not totally instrumentalised and potentially porny. The feeling I'm looking for is a little closer to sexual tenderness? I think.

### Reference points

I should go on the record immediately by saying that my primary reference point in terms of the feeling of this thing is *Sepe's Cumshot*, that amazing web-game of masturbating a bit and muscly man. I've always been interested in the feeling that game generates in me, both of a kind of 'wrongness' (for me, personally) but also a genuine erotic layer, which I find hilarious given how crass it mostly is. Or perhaps it isn't crass at all, but rather artfully done, given how subtle the emotional range is (for me).

Along with that it's fairly obvious moving forward that *Luxuria*



## 5. to-do

### 2018-04-23

- Create basic arousal number that goes up with correct sliding and words
- Create basic annyang voice commands (2018-04-12 13:54, Thursday)
- Create basic "slide between x and y" instructions randomly generated (2018-04-12 13:35, Thursday)
- Create acknowledgment of correct sliding (2018-04-12 13:35, Thursday)
- Create basic connection between synthesis (e.g. tone) and sliding (2018-04-12 13:35, Thursday)

### 2018-06-12

- Add a readme.txt to the desktop that contains diegetic information about the experience
- Work on the language a lot
- Think about sound issues on iOS - test whether you can trigger sounds in slide event (guess it's maybe a version of mouse-moved?)
- Can you bear trying to restyle jQuery version of radio buttons to have them look more 'authentic'? (Almost certainly not.)
- Write a journal entry about sounds to figure out how they'll work
- Add a basic ending (let's say just a dialog that says thanks for now)
- Add the concept of speed as a multiplier (or anti-multiplier)
- Add random/situational phrases to pop up in the text panel
- Make the version with the slider in its own little window (test in mobile)
- Add a text panel to indicate instruction modifiers and other phrases
- Add a progress bar (need to think about how this is going to look)
- NAH Add numbers to the pips? (I feel like this is not very win95-y, but otherwise how do you know what the setting is?)
- IT'S BETTER IN THE PANEL I THINK Highlight the setting to slider to on the slider (try this over the version where it's in the panel)
- Shift arousal tracking to per-stroke, make sure notify is per range-change

## 4. related work

### Games

#### **Unknown. Sepe's Cumshot**

Extremely not safe for work porn site. The key inspiration. Incredibly simple Flash game where you masturbate a muscular dude by waving the cursor over his penis. Fascinating for actually managing to create a kind of erotic situation despite being pretty crass.

#### **Robert Yang. Stick Shift**

A bit like Sepe's Cumshot if Sepe were a car? A more metaphorical masturbatory experience, or at least indirect. Incredible production values.

#### **Kayabros. Sleepy Time.**

A masturbation rhythm game. The rhythmic emphasis really helps it to feel erotic, different stroke lengths/timings makes a difference to how organic it feels.

### Software

#### **TeaseAI**

An incredibly comprehensive and configurable piece of software to simulate being teased by a domme via an online chat app, used by a community of people who also create distinct personalities for the app.

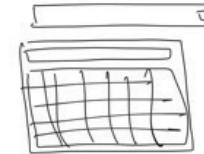
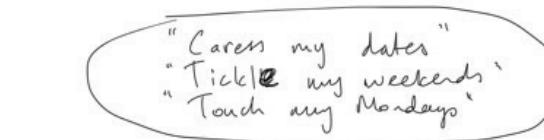
### Words

#### **Joel Couture. The Heartbeat Symposium – Exploring Love, Sex, & Intimacy In Games. Gamasutra, 17 April 2018.**

An article about a group promoting the creation of games about love and intimacy and who run an event about this. Useful writing about this as a subject for games, has examples too.

THE **SPEL PLAY ANGLE** is easier b/c it doesn't need you to think deeply about "real" sexual pleasure for a computer. You are trying to signal to the player, but in a kind of minimal way? A clear, non-messy, non-organic...

I ~~wrote~~ mean, a basic question remains: what does/can it actually feel like? (Notably the diff between slider and everything else?)



Specificity like this is intimacy... data-oriented pleasure... mimics physical pleasure in a nice way? Makes it feel more intimate... not a brute action but a considered, sub-targeted one

Yes    No    Maybe

"Yes!" "No!" "Yes?" "Maybe!" "No!" etc

↑  
Speed and rhythm is a thing that can work.

**STAGE BASED?**

As in Mario-ish levels? Time limits? Cool downs? Making something? Just a single element on screen at any one time?

## MAYBE IT'S JUST THE SLIDER?

- Think mobile friendly (*aspect ratio*)
    - what are the inputs?
    - How does it instruct you?
    - How do you get feedback?
- Gradient?* →
- 
- Minimal?* →
- Be nice to have no text on the screen?
- INPUT**
- Sliding, obviously.
  - Speed of slide
  - Specific numbers
  - Length of slide
  - Rhythm of slide
  - 'Cuddling without Sliding'? (The knob, The output box, The background in general)
- FEEDBACK** → independent shaking of different elements?
- Shake
  - Growth (?) ← too obvious?
  - BG colour, slide colour, "knob" colour?
  - Sound ... buzzing? System beeps?
  - An "endig"? Possibly static, slow dissolve, a euphoric tone...
- LUXURIOUS SUPERGIRL

**INSTRUCTIONS**

- Tension between clean UI (just slide) and ability to give guidance...
- But if it talks (voice or text) it might make it less sexy? I want it to actually be sexy.
- Could have up front instructions (in "speculative voice") that give you the idea of exploring its body...
- Sometimes it's not in the mood?

However, I've been getting stuck on Level 3 at times, I think, and thus becoming concerned that the game **can't** be funny. At that level of a kind of second-order fiction of a computer **really receiving erotic pleasure**, I find myself anxious about my representation of that, not just in terms of gender, but the broader question of what my responsibilities are, what I'm saying about pleasure, who I might be excluding, attitudes I might be promoting, simplifications I might be making, etc.

But the game isn't really **about** level 3, it's about level 2 for me – level 3 is 'just' an extra fictional level required and implemented by the fictional game designers at level 2 to aid in the eroticism of the experience. As such, the game itself does **not really receive erotic pleasure** (this should probably be obvious? Is it obvious?), negating (I think) a number of the concerns that

level 3 can raise. At level 2 we can, I believe, enjoy the humorous tension between erotic charge and decidedly non-erotic Windows 95 interface elements quite successfully.

All that said, I think this diversion illustrates that there's clearly room for a much expanded and differently focused approach to some of the questions this game design raises. What if we tried to make another game out of classical user-interface elements that really **did** try to address more complex and rich representations of sexuality and erotic pleasure? What interface elements would we use? What would the computer say? How would the underlying system represent and track arousal and other qualities of the interaction? What is erotic for a computer anyway? It's a whole other giant project, in other words!

For the moment, however, I'll stick with my it's-not-a-dick-joke joke game.

conflict for me in terms of trying to make *It is as if you were making love* non-gendered. My aim was to find a way to alter the slider away from being a user-interface penis and toward being a more ambiguous erotic input. All that said, I want to acknowledge a worry around detuning the penis-slider. A couple of days ago I happened to end up showing the game to an undergraduate software engineering class I was guest lecturing. I discussed the ideas around transforming my vertical slider in response to feedback (chiefly from my mother, as I've said) and I told the story chronologically, so the first thing I showed was the vertical version of the slider.

As I interacted with the slider to demonstrate the game it got a big and deeply gratifying laugh. That laugh returned me to a key goal I have with *It is as if you were making love* and have, frankly, with most of my work: comedy. With the exception of a couple of games (e.g. *A Series of Gunshots*), I like to treat my subject matter with humour in no small part because it's more entertaining for me to make games that way, and because I think it can make the underlying ideas more accessible to people. The horizontal slider, though admittedly appearing second and so losing the element of surprise, didn't generate as much hilarity and later that evening it occurred to me to worry about this:

*Are taking a 'progressive' position on sex, sexuality, gender, etc. in some way incompatible in this context with making a game that tackles its subject matter with a sense of humour?*

On put another way, was the humour of this game reliant on a dick joke?

In the end, I don't think it is. Although there's a definite comic element to

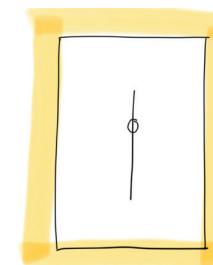
penises in general and the idea of a user-interface penis specifically, my feeling is that *It is as if you were making love* has always been intended to play on a 'higher-level' joke about sex and computers. Specifically, from the very beginning, the thing that struck me as interesting about using *Sepe's Cumshot* (porn game hosted on hosted on a porn site, so very NSFW) as a starting point was the idea of trying to recreate the weird *eroticism* (for me) of that game using only standard user-interface elements. That is, could standard user-interface elements (like a slider, but also like buttons, dialog boxes, etc.) be presented in such a way as to have a sexual charge?

Actually working on the game, however, it's been easy to get lost amongst the different layers of its narrative frames. It is, after all, 1) a game you play in your browser as a regular old human being in 2018, which 2) pretends to be a game from the future designed to aid humans in satisfying a desire to give erotic pleasure that 3) implements this by pretending to be an interface that genuinely receives pleasure from human input.

Level 2 is where I think the actual humour of the game resides: the absurdity of having a designed erotic experience with a classic-looking user interface. However, I of course want this to be in tension with an *actual erotic experience* at the same time – that's what I see as the magic trick the game needs to pull off. It needs to be both funny that one should have a game that tries to create a 'sexy' interaction with your computer, but then also it needs to be surprising that the interaction turns out to really be sexy (to some degree).

### A SYSTEM ...

- So one scariest part may be that this seems like it needs a real system underneath... and like it might need some underlying desires...
- Foreplay? Can you just jerk it off?
- Do you get a satiny?
- Does it tell you what it likes it slow? Fast? Does it have a mood?
- Fall-off ~~fall~~ in its "pleasure level" if you leave it? But you could also tantalise it?
- Like do I reverse engineer from the kinds of inputs that would seem sexy?
- Instructions need to cover the various possibilities — does it/can it be "obvious" if it's enjoying something or not?
- Will have to figure out how I can measure a whole bunch of things.

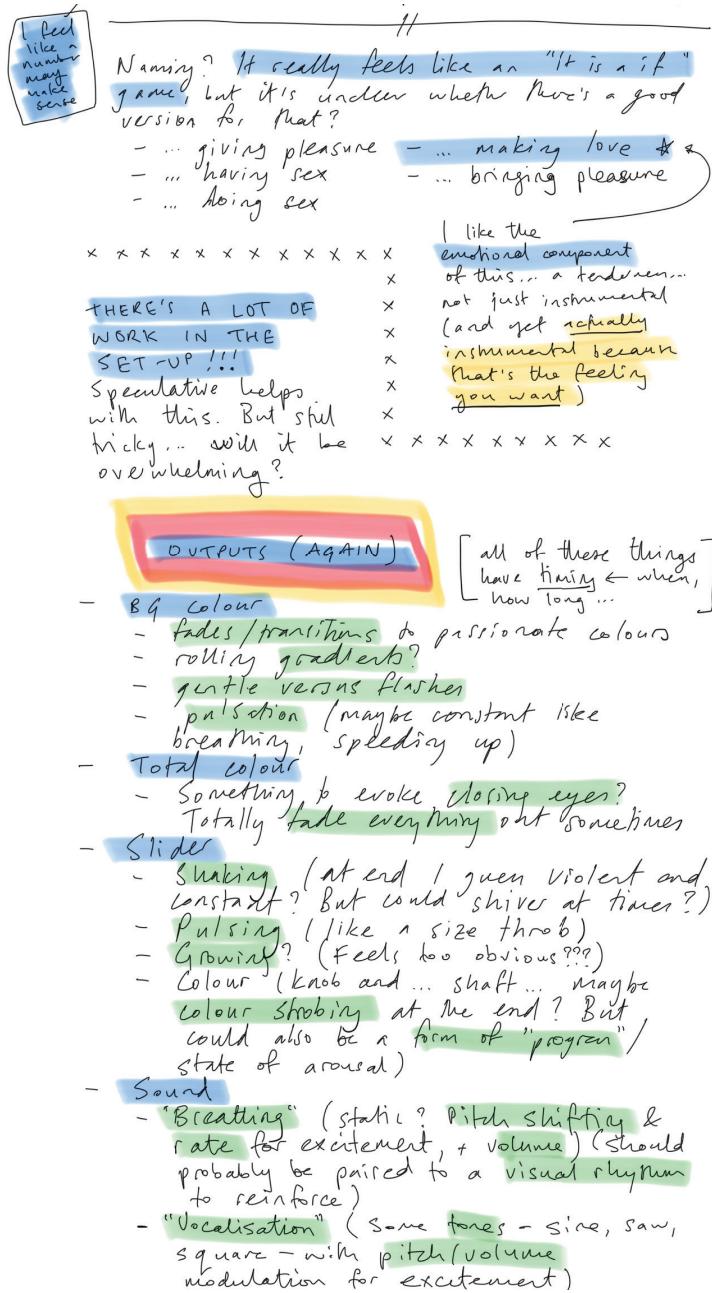


So now we have a totally minimal version of this game. Just a slider.

A next thing to test out would be different feedback modes...  
sound, shake, size(?), pulse, colour,

//

Would it make sense to have a progress bar or a number to indicate how well you're doing, or is it better to operate purely on secondary signs? (But with a real love you would potentially get explicit feedback and it does match up with the UI end...)



of a vagina than a penis' but rather that it evokes genitalia/intimate body parts in a way that isn't heavily aligned with a specific corresponding human anatomy.

The other big challenge ahead, which I've done much less to actually deal with as yet, is to think about how the game frames the player's relationship to play. As above, my vision is that the game exists in a speculative future – as such the real player (in our present reality) roleplays as a person from that speculative future. Further, the game presents as software that is meant to have been created to allow people to experience the erotic charge of giving sexual pleasure without involving other humans. As such, the real play (in our present reality) roleplays as a person who has that in mind (or at least is interested in that experience). Conveying all this is very difficult and is hugely the work of the 'about' text I include as an option at the beginning of the game.

My first 'solid' draft of this text focuses heavily on using the same tone as the text for *It is as if you were doing work*, which makes sense, but which has, I think, led it to be a combination neutrality and irony about the state of the speculative future the game comes from. In the context of 'making love', though, or at least of erotic pleasure, that kind of tone probably ends up reading as vaguely hostile and definitely as a buzz-kill. So there's a need to find a voice for that text that both communicates the speculative proposition of the game, but doesn't immediately set the player in a vaguely combative or bleak relationship to the interface. (And, after all, the fictional writers of

the about text *wouldn't want that* anyway – it's one thing to try to evoke a level of cynical 'robot emotional intelligence', as I think of the text as being written by Als, but it can go too far.)

Beyond the introductory text, there's a bunch of language in the game itself that the interface uses to express its erotic pleasure in reaction to the player's interactions. Right now it's pretty much placeholder 'sex talk' like 'mmmmmm' and 'that's feels good', etc., so there's work to be done there too. Of course, I want the voice to not read as male here too, which shouldn't be too difficult I hope, but more importantly it needs to continue the invitation to an erotic experience throughout, needs to help keep that alive. I suspect that the most obvious kind of text, which I have now, isn't going to cut it for that either. At present I don't really have a strong direction for this text beyond figuring I'll rewrite it and see what happens.

So, that's the state of affairs right now with *It is as if you were making love* and its "penis problem". Ultimately, I think it's a fascinating problem to have, to get down to the level of **specific interface elements** and specific **rotations** of interface elements in talking about erotic interaction. It really pushes my buttons.

## Monday, 18 June 2018 7:42AM

I'm writing an entry during my writing hour just to say a thing or two in continuation of the above discussion of the penis problem.

I've written before about how the penis-esque nature of the cumulatively-labelled vertical slider causes a

### ***It is as if you were making love***

I feel when playing that game is a big part of what I wanted to chase with my game, but with classic user-interface elements instead of a 3D muscleman. But of course a game with that kind of providence is going to be pretty oriented toward a specific understanding of pleasure, bodies and "sexual input".

It stings especially because it's exactly the same problem I ended up having with *Hot Coffee* (a sex game using the metaphor of coffee-making): it's what I guess I would characterise as a male sexuality, reflecting the game it satirised (the *Hot Coffee Mod* of *Grand Theft Auto: San Andreas*). But, while I allowed myself to just feel a bit guilty with *Hot Coffee*, for this new game I really don't want to let this cis-gender-male-dominant angle stand, so I need to work on it.

There are two key areas that I see as being integral to detuning this issue in *It is as if you were making love*: the slider itself and the framing of the player's roleplaying.

First of all, the slider is pretty darn penis-y in the configuration I've got here: it's a vertical (erect) element and you interact with it by sliding the handle/knob up and down repeatedly. A key reason I went with the slider is that it's the key classical user-interface element that allows for continuous, real-time interaction. A scroll bar does this too, of course, but a scroll bar is just a kind of slider. Other user-interface elements tend to be discrete on/off kinds of interactions, from checkboxes to radio buttons to drop-down menus. I feel like continuous, real-time motion is kind of central to the idea of making the interaction erotic, it's more analog and serves as a better analog

to the kinds of motions we often make in sex.

So I feel like I'm 'stuck' with the slider in terms of the input it enables, and because it's one of only a small set of classical elements possible (both in terms of what *jQuery UI* offers me, and in terms of what figures in most people's understanding of what counts as a 'typical' interface). As such, I need to detune the slider itself. My current design move is two-fold. First, I'm rotating the slider to be horizontal so that it's less immediately reminiscent of an erect penis. It's surprising to me how much this helps when I try the horizontal prototype, perhaps also in part because horizontal sliders might be more common in user-interface and thus read more immediately as "just typical UI" rather than being atypical enough to immediately suggest other readings.

The second 'fix' is to alter the numbering on the slider. The vertical slider was numbered from 0 to 10, with 0 at the bottom and 10 at the top. That means the slider has not only an axis, but also a kind of *direction* – it has a 'base' and a 'tip' that make it all the more suggestive of a penis. By shifting the labels to run from -5 (far left) to 0 (centre) to 5 (far right), the horizontal slider is implied to be symmetrical rather than pointing in a specific direction, properties that are perhaps a better fit with a vagina (see also: *Luxuria Superbia*), or at least a more ambiguous sensual input. (Believe me, I never thought I would be doing close readings of classical user-interface elements as genitalia/erogenous zones, but here we are.) So the hope here is not that slider becomes 'more

### ***It is as if you were making love***

*Superbia* is a key reference point, both as a basic 'sex game', but especially as a sex game that's trying to be sexy/erotic without "resorting" to obvious/straightforward human imagery. It maintains a related sense of the alien, the technological, so it's important. I'd say I'm distinguishing this work from that game in trying to achieve something related through a very formal and conventional user-interface aesthetic. Also I suppose that this game is more "masculine" to *Luxuria Superbia*'s more "feminine" energy? Though I don't want to play on that too much.

There are many other sex games that are relevant data points. Robert Yang's work is an obvious thing here, notably the gay sex thing, given that I'm male and my interface is male-leaning given the format of the slider I guess. That ties to a key element of the game which was how to make standard UI elements sexy/erotic – I'd initially thought the game would be composed of multiple UI elements, but quickly realised/decided that the slider was important because it maintains a base level connection to a kind of sex act (male masturbation) in its visual format and motion, which the other UI elements don't really have. Without that, my fear has been that the erotic element will be lost or hard to communicate.

#### **As for now**

My main point of concern design-wise is around how to indicate what's happening and to create an appropriate mood and context for the player. The absolutely central design goal is that this feels genuinely erotic in the way I

find *Sepe's Cumshot* does. The question becomes how to do that in this much more abstracted scenario.

Some of it can be done by explaining the speculative situation: a future in which life becomes more and more sterile to a point where we don't have much of an erotic/sensual experience thanks to detachment, and therefore might need a piece of software that safely but sensually allows us to experience the pleasure of giving pleasure. That's the elevator pitch.

But then also there are modes of feedback that are important in order to register the pleasure of giving pleasure: you need to register that pleasure is being received in order to enjoy it. I want that pleasure to somehow seem *technological* but not so technological that it is utterly alien. And not so human that I'm just recreating *Sepe's Cumshot* with a slider, having it ejaculate all over the screen or something.

So that is the current state of consideration. More news as the situation develops.

#### **Monday, 9 April 2018**

**14:15 – On CART415 discussion, input parameters, failure, Sepe's Cumshot, game flow**

#### **Feedback from CART415**

I presented the basic idea of the game to the class today including the current small set of CSS animations that can be triggered to indicate feedback, and they gave some insightful/helpful feedback:

- Modem sound as a kind of machine noise that could be thought of in this context

## ***It is as if you were making love***

- Procedural audio connected to the actual motion (user and pulsing etc) in order to create something that feels like a physical connection
- Space Team as a reference point, multiple UI forms (though may lean a bit far toward comedy)
- Other UI elements (could be thought of as an acknowledgment of a diversity of bodies)
- Slider itself changing form (perhaps becoming distorted, wavy, etc.)
- Consent as something that of course needs to continue to be thought about moving forward
- Actually creating some of that discomfort about the underlying LACK of pleasure for the computer (reference to Blade Runner 2046 sex scene)
- Programming as a form of giving pleasure? (This would clearly be a completely different kind of game, but an interesting point of view)
- How to represent loss of control at a moment of climax? (0s and 1s flying around?)

### **What are the input parameters?**

One starting point when thinking about how this game will be played is to think about the player's activity. What can the player **do** with the slider and how can that be detected and transformed into information that I can interpret?

- Sliding
  - **Rate and range** – suggests that the slider can want a stroke between specific limits (0-10, 2-4, etc.) where each movement within the range should be completed in a time range (slow, medium, fast – or “slower”, “faster”). That would allow a base instruction of “Move between 2 and 4” or “Stay on 8” and then additional
- instructions while you're doing it of speed up and down.

### • Caressing?

- Could you ask them to just brush the mouse over the slider without sliding? Over the handle? Or is that sufficiently foreign that it doesn't make sense (and also doesn't work with mobile)
- Could caress the background/screen area instead – click and drag or touch... but how do you communicate that sort of thing?

### **On failure?**

It came up when talking to the class – should it be possible to do poorly such that the computer is turned **off**? Or even shuts you down? On the one hand this is a better representation of sex, on the other hand it's maybe not a good fit with the idea of it being something that is ultimately meant to satisfy a human? On the other other hand, it's also true that such possibilities and experiences are part of what makes sex sexy? It's not quite so interesting/thrilling if you know it's going to work every time? On the other, other, other hand, I don't think Sepe's Cumshot goes that?

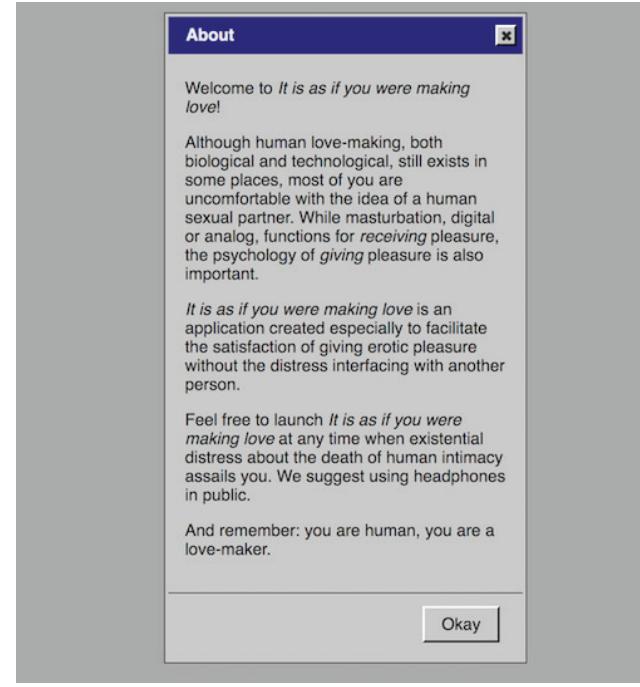
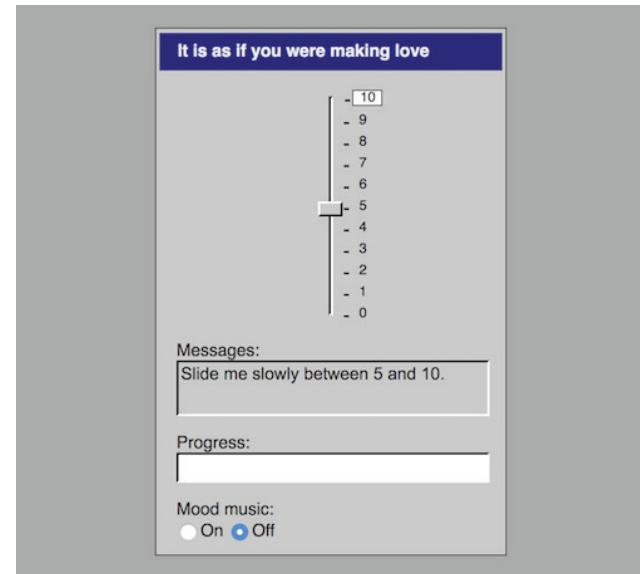
... goes to check ...

### **On Sepe's Cumshot**

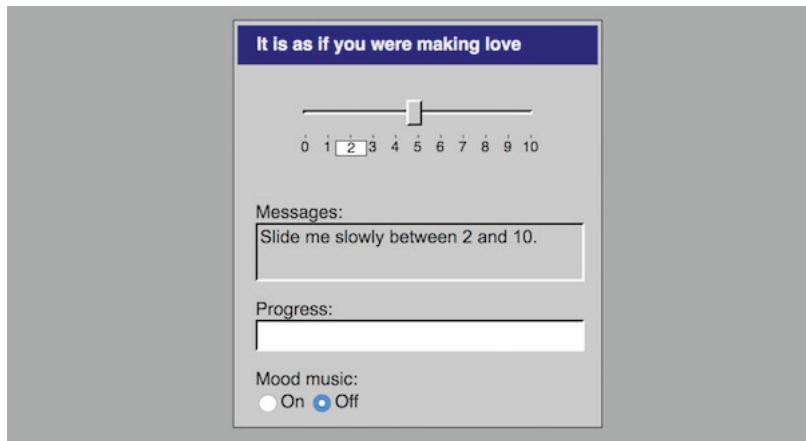
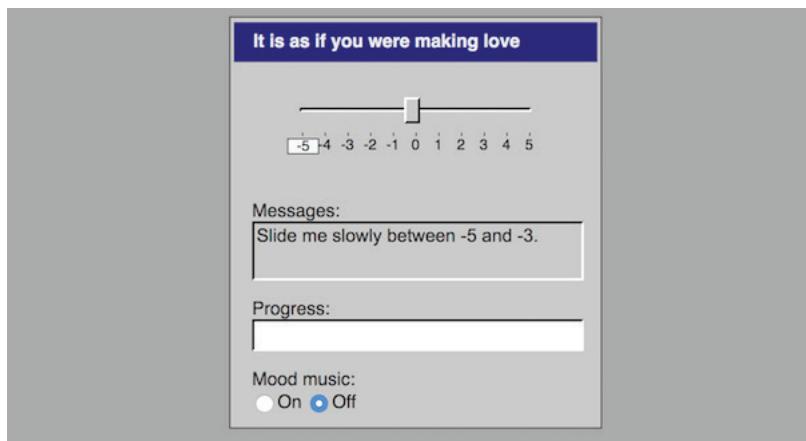
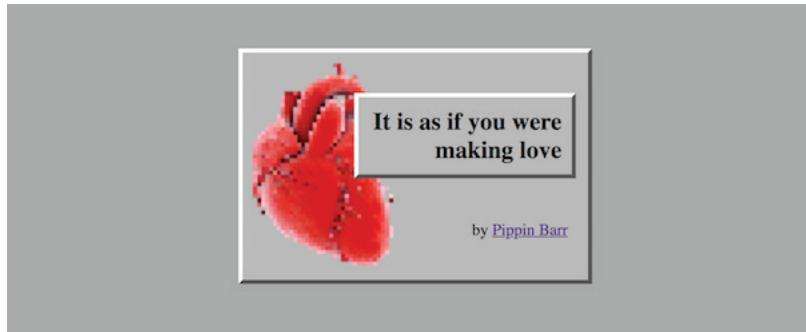
Given this is a core reference, how does it work?

- You wave your cursor over his penis
- He goes through “stages” and you're instructed that if it's difficult getting to the next stage you should try to go faster
- He talks to you about how good he feels, which is important
- He pulses
- His penis animates (flaccid to erect, waving around a bit, gets bigger)

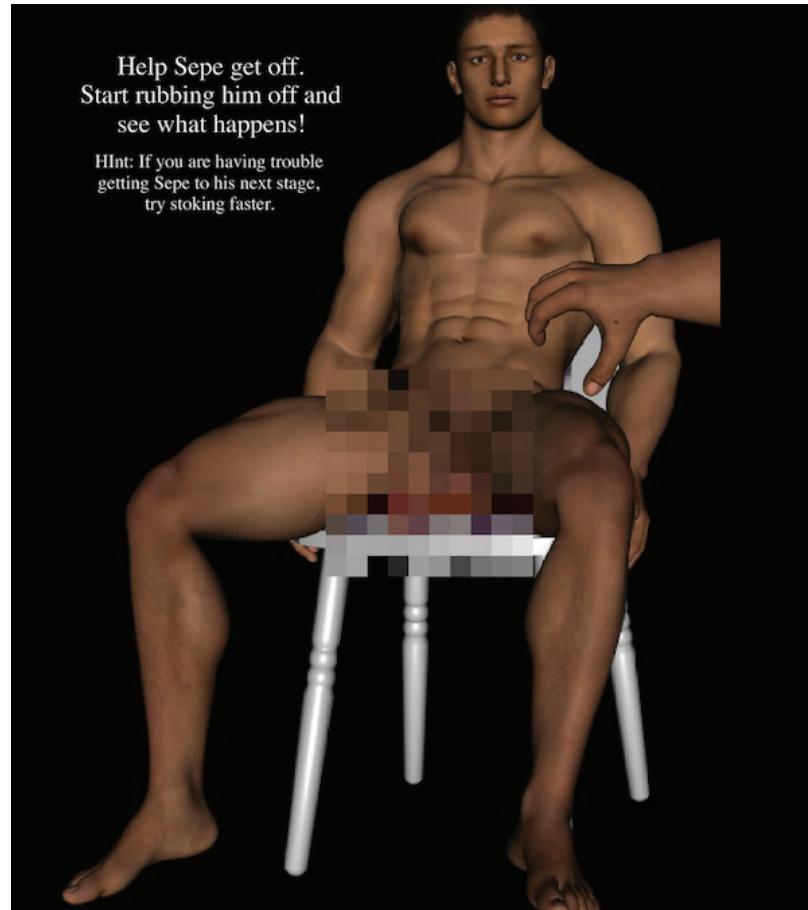
## ***It is as if you were making love***



*It is as if you were making love*



*It is as if you were making love*



- He flexes his arm, self-admiration
- Tells you to go faster
- Falls off his chair, double flex, "don't stop"
- Totally amazing pure white pixel ejaculation, zooms in on his balls, cuts to white with just your hand

That is a weird game. Notably, though, you can't "fail" with him – he remains in his current state of arousal no matter what. Which **does** make him seem

more like a thing than a partner, and makes me wonder if most of the erotic nature of things is to do more with the 'realism' and animation rather than the system of interaction.

In which case my work will probably need to be at least a little more sophisticated? And raises the question of whether the slider should have a mood, for example, such that sometimes it's not interested (and therefore

perhaps has no handle on it so you can't actually interact – no means no), and that it's possible for you to revert back to zero arousal if you just leave it along or constantly don't do what it's asking you to do?

And does that end up meaning that the ideas around consent etc. become more problematic?

#### Game flow

- Game starts, it's the slider on a screen and nothing else
- An instruction pops up asking for movement in a specific range (2-4) say
- Once you're doing that, you get some acknowledgment of the right area ("Yes.") and then possible additional instructions on speed ("Slow down", "Faster"). (arousal++)
- If you do nothing or something wrong, you get told: "No, not there" or maybe even "Higher" or "lower" depending on where their movements are. (arousal-)
- As arousal level goes up, we can cue some indications of success/arousal in stages (as per Sepe), so vibration, waggling, pulsing, audible 'breathing' (rhythmic white noise with a ramp etc.?), maybe a tone as well on top of that (sine or something, frequency tuned to your movement, but also climbing in pitch), maybe musical notes on the different pips as you pass them? (might be a distraction), eventually background colour shifts
- As arousal level goes down, we can remove these cues – perhaps they can be randomly collected up rather than obvious sequences? Can also tune the amount of effects (e.g. vibration rate and distance, breathing volume, pitch, rate, ramp and punch etc.)
- At some point, if you're successful/ keep following instructions, there is

some kind of climactic moment (might be an opportunity to have "multiple endings" here as a funny game reference thing?) – fade to white, slider flies apart in all directions, shaking increases until the slider just vanishes, or a gradual return to calm (maybe asking you to continue gently rather than just watch a performance of orgasm?), sound crescendo (modem sound? connecting... ha ha), ... etc. These could be endings you could discover (could even explicitly list this as part of the experience – 1 of 5 endings reached to get people coming back for more – although that may not make sense in terms of the speculative aspect where you would be using it specifically as a tool...)

#### Interpreting input

If the user is moving the mouse up and down we can check at each moment whether they're in acceptable range of the top or bottom of the range desired (or possible if the idea is to remain still then just in range of that) – should be some basic error range.

So basically you can hit a desired point on the range, then start a timer, then check the time taken to reach the other point (becomes the target), and compare that against some desired rate (with room for error). So you basically need to know: top, bottom, time in order to be able to judge successful sliding. If top and bottom are the same and time in 0 then that can reflect leaving the slider in position. Could also have a "don't touch" mode where you can make sure the slider isn't active at all (not even clicked down on).

With those basic element you can then ask for different ranges and rates in order to determine the success of the player. Maybe also need some kind

Pleasingly, the software is designed as 'software to please a human' but in the form of 'software to be pleased by a human'. Fun trick.

#### Here we are then

Overall, this is a pretty solid version of what I'd envisaged I think. It's clearly very different to my original approach with the vibrating pulsing contemporary-looking slider, but I think it's doing what I wanted it to do. I think it *is* a bit sexy or erotic to bring the interface all the way to orgasm.

**Friday, 15 June 2018**

**7:17AM**

This morning I wanted to spend some time writing about the problem of verticality in the game, maybe as something to post more publicly, maybe not, but I guess I'll try to write it in a voice that's more public.

#### Penis problems: Designing the erotic user-interface of *It is as if you were making love*

My user-interface sex game *It is as if you were making love* has reached a point where I've been able to actually show it to other people and ask them what they think. It has a opening sequence (starting the software from a faux desktop, looking at the splash screen), a core gameplay loop (moving the slider according to instructions), and a closing sequence (computational orgasm, shutdown). It all works and does, essentially, what I'd envisaged from pretty much the beginning of the project.

The basic concept behind the game revolves around a near-ish future in which people no longer want to engage

in physical intimacy with other people and, in fact, are creeped out by even having sex with other humans via technical intermediaries. Because people still value the experience of giving erotic pleasure, however, this software (*It is as if you were making love*) has been developed to provide an outlet: it is software that allows you to simulate giving pleasure to someone (or something).

Showing a game to other people, however, pulls you out of your tunnel vision of what you're making and forces you to acknowledge that your work can have meanings and affects that don't fit in with how you experience it. As such, when I showed the game to my parents, I was pushed into really reencountering my own game to a large extent. (My parents are almost always my first testing group for every game I've made – they're an excellent combination of computer literature, non-game-literate, and connoisseurs of contemporary art.)

After they played, I got very helpful usability points from them both (particularly around the dexterity involved in moving the slider quickly), but most importantly I got my mother's understanding of the game as a woman. And specifically, she reported that from her perspective that game felt like being in service to a male, rather than my goal of the game feeling like giving pleasure to a more ambiguous entity.

It was important to hear this, because somewhere in my heart I knew this was going to be an issue with the game: one of the main starting points for *It is as if you were making love* is the (very NSFW) flash game *Sepe's Cumshot*. The awkward erotic charge

### ***It is as if you were making love***

interaction and is just cringe inducing and unsexy. But something like "I love the way you slide me" feels pretty good I think – it has a vulnerability but maintains the kind of 'neutrality' of interface language/interface verbs. And there are other possibilities in there, including I suppose super neutral interface-only language? Something like "Your use of my slider element is highly successful." But here you pull *all* the eroticism out and I think it becomes a turn off?

At any rate, the main thing is to try to work out the tone and then rewrite all the pertinent language in the game. It's already in my todos, just wanted to register my feelings about it.

### **Orgasm**

I really like it! It's pretty well implemented, makes sense to me, and is kind of spectacular. There's a problem, I think, with the pacing of it. I want more of a crescendo followed by a more clearly extended ramp down so that you spend some more time at the bottom of the curve, with just the occasional twitch before it finally finishes. I guess I could hard code a final twitch if I really wanted to. Anyway in terms of signifying the event, it's good.

### **Time**

When I played it through for Rilla I felt simultaneously like it was too slow and too fast somehow. Like I was boring her, so it should have ended faster, while also it felt like it was over all too soon. The transition from slow to fast felt a little too abrupt, not quite so much time to be playful in there (not that you're allowed to be of course, but still). Not enough time to really dwell in it and

sink into the feeling of "I am pleasuring this interface".

### **Readme**

I think in order to keep with the *Work* game I do need some kind of diegetic information with the game. I'm thinking a readme.txt on the desktop makes a lot of sense. With a short explanation of the experience in a dialog box. Easy to implement, just need to write the text. That kind of basic worlding is helpful.

### **Testing**

It's definitely a game that's going to need fairly serious testing to get it just right. It's so reliant on the player's emotional reaction and to them playing along, so trying to make sure that's possible and feels rewarded is going to be really important.

### **Cooldowns and dates**

Did think seriously about both having a cooldown before you could play again and having the option of setting up a 'date' with the interface when you would come back. I like both those ideas in general, I think they're fun and interesting (and sometimes important) ways to present interaction, but I think in this case it pulls me away from the speculative play line I've been developing for the game. If the game is software created by computers to simulate an erotic experience for the benefit of a human user, then it doesn't make sense to have the cooldown idea because it prevents the human user from perhaps repeating the experience immediately if they find it gratifying. The computer doesn't *need* a cooldown, obviously – it's a computer, it's software. So it becomes too artificial and isn't really serving a purpose in this context.

### ***It is as if you were making love***

of amount of time for them to strike the right rhythm before you declare something a failure (i.e. you don't check up on them for some set amount of time after introducing the new parameters).

Doesn't actually sound like it needs to be especially complex? Ha ha, famous last words.

### **Thursday 12 April 2018**

#### **11:52 – On speech, expressive interactions, and what's next**

### **Speech, Speech**

In the bath last night I was thinking about other ways of engaging in an erotic way with the UI and recalled that I'm constantly talking to my DART450 class about the power of sound and particularly the power of speech. Saying words feels, I think, like a way of taking ownership of them and engaging in their context more fully that, for instance, moving a mouse, clicking a button, etc.

So, it occurred to me to include voice input in the game as a kind of 'dirty talk' between the user and the game, to pull them into it more. As with the rest of the design I wouldn't this to be directly about sex in any way, so then there's a question of what you would say in this context, and I think it would be things like

- "Confirm"
- "Activate"
- "Acknowledge"
- "Yes"
- "Enter"
- "Complete"
- "Finish"
- "Save"
- "Zoom"

- "Search"
- "Find"
- "Select"
- "Show"
- "Paste"
- "Start"
- "New"
- "Add"
- "Success"
- "Continue"
- "OK"

And perhaps more. That is, kind of positive, active words (verbs?) that reflect successful interactions with a computer.

The next question would be how to ask the player to say these words as part of the interaction. One option is that the system literally just asks them to "Say 'Start' to me" for example. Another option is that the computer asks them sometime to "Say something" and the list of accepted words is provide in some interface element on the screen such that you can learn the kinds of things it likes to hear?

I suspect the former is going to be clearer and simpler and has a much more direct connection in terms of 'getting it right'. The latter is kind of nice because it's more creative/expres-sive to choose the words you want to say. Maybe you can combine by having it giving you options? "Say 'Start', 'Success', or 'Save' to me". Then you still choose which has an erotic quality – agency.

### **Expressive interactions**

Much of the game right now is based around the computer telling you precisely what to do (and how to do it), and

## ***It is as if you were making love***

I wonder whether there's a missed opportunity there. Seppe's Cumshot would have been more interesting if sometimes you went slow and that was more pleasurable for him than fast, for instance. This game can ask you to go slower or faster, but there's a difference between that and *choosing* to go slower because part of the erotic nature of things is the lack of control your partner might have, or rather the idea of giving up control and experiencing a thrill *because* of that. Maybe there can be a general "move the thing" implied, some requests made, but also freedom to just keep moving, to stop sometimes, to go slower or faster. This would be kind of nice, and it's still okay if the thing more or less inexorably moves toward a climax except, I guess, in the total absence of interaction.

### **What's next?**

- It feels like a super vital thing to get going is better sound. Sound can even be the major form of output really, with a little bit of extra trembling etc.
- It would make sense to actually create a basic arousal idea with desired ranges to just experience how that feels, then add in the idea of a rate as well.
- Test the annyang feeling.

Bam.

### **Monday, 23 April 2018**

**14:21 – Where are we? / Stick Shift**

#### **Where are we?**

It's been almost two weeks since I found the time to work on this project thanks to: life. On the other hand I did have a chance to run it by colleague and feature Miguel Sicart over the

weekend, and ended up getting to see Robert Yang present on sex games and in part specifically on his game Stick Shift which is an incredibly obvious reference that I should have already included in my discussion here. In fact it shook my confidence that it's even worth making this game, but more on that shortly.

Overall the state of the game is that I need to just add things to it, notable the arousal concept, feedback on arousal, and the use of annyang. Question: annyang versus SFX and interference? Headphones only game for that reason? Perhaps so. That would also allow for responsive voice without colliding with annyang as well.

I think my current state of mind is that... well, it's still a worthwhile game to make... and I really just need to find a space of time to make it and release it and move ahead with other ideas. It's not valuable to be precious about it. Har har.

#### **Stick Shift by Robert Yang**

So, Stick Shift is Robert's car-masturbation game. As he said recently as a symposium we invited him to: "If your car was gay, and you could have sex with your car, what would that look like?" Brilliant speculative question, and not unlike the question I'm asking with this current game – but still different. For one thing it positions the car as deriving true pleasure, I think? That it's a genuine partner in the experience. Whereas I'm interested in maintaining the awkwardness/strangeness of the user-interface ultimately still being a user-oriented thing – it doesn't feel pleasure and only shows enough pleasure to increase the sensation

## ***It is as if you were making love***

sound when you're at a specific progress point, maybe a fade in relative to the progress after about 50% or so? Or earlier is probably fine too...

- Having the text input demand actually appear and having a set of phrases/questions (I just thought of 'say my name' which is fun)
  - Tell me that you love me
  - Tell me that you need me
  - Tell me that you want me
  - Say my name
- Maybe also text output dialogs too to emphasise, and you just always click 'Okay'? Ha ha. These could be stronger 'That feels so goods', 'Mmmmmmmmmms' etc.
  - These could also be used if they don't pay attention to the realtime output about slowing/speeding and thus need to be stopped and told to pay attention (what a confident lover!)
- An ending! (An orgasm!)
  - Breathing sound is loud
  - All the other sounds play randomly or loop
  - Maybe some light flashing of menu bars or the background (not epileptic though)
  - Maybe the slider convulses by setting itself to random values
  - Then it should diminish gradually to a stable state
  - Then a dialog box thanking the player, maybe with a tada
  - And then it all vanishes with the shutdown music back to the desktop
  - (Maybe it asks for another date)
  - If you click the icon again it's too tired/sated to interact with you again, ala Robert's cooldown for Hurt Me Plenty

Yikes. So put that way it's not a tiny amount of work. But it's good work, important work. It at least *feels* like the above is the stuff that will bring the game across into being genuinely (or at least more) erotic feeling to interact with. The language is a big thing I think, as are the stroke styles and the idea of being attentive to speed. Though I do wonder whether the speed element will somehow end up being too much? But it's needed. Just have to try it and see what happens really.

### **Tuesday, 12 June 2018**

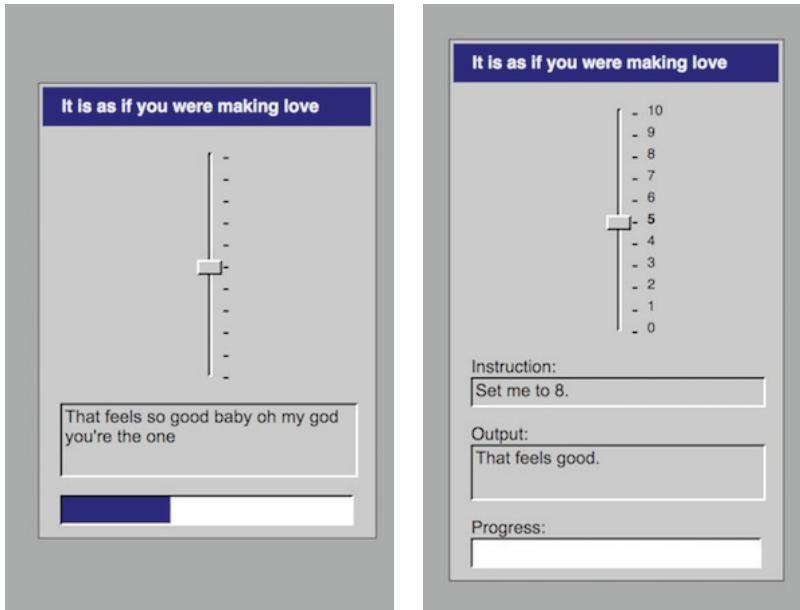
**18:23PM**

Okay well, five days later I now have what I suppose is an alpha of the game. It has proper stroke tracking, stroke variations, speed tracking, breathing sounds, text inputs, feedback dialogs, message highlighting, a pretty decent orgasm, and so on. It is as if it were a real videogame made by me.

I'm sitting down to write a few notes on the state of the project here. I think a fair bit of the design thinking behind the various additions is successfully in the commit messages, so I suppose I want to think critically about where it's at right now.

#### **Language**

The big thing that stands out to me at the moment is the tone of the language in the game. Definitely haven't nailed down the right voice or the right relationship between system and player. My writing is kind of trying a bunch of different things to see what sticks. So, for instance, something like "You are very good at this, human lover" feels way off and awkward. It draws too much attention to the falseness of the



all established. We have the startup process by clicking an icon. We have a title card thing (placeholder). We have the basic application UI (windows with slider, input, output, progress, music), and we have the modal text input dialogs (which I just realised I still need to test out on mobile to know whether or not they make any sense).

### When can I see you again?

As I was typing the above I drifted into thinking about the UI element and wondered whether it could be amazing to include a 'when can I see you again?' dialog box where you choose a date and time for a next 'date'? It would remember in a cookie and if you went back it would be there waiting for you. If you went early it wouldn't be there (you could click on the icon and it would tell you to hold your horses). If you went late it would refuse

to load until maybe you type in that you were sorry or something?

### And now?

The biggest thing that's missing is some attention to the actual interaction of strokes. The obvious things that need to be changed/done are

- Generally longer periods of time on a single stroke range (though mixing in some shorter is good, probably just a random selection from an array is the easiest way to modulate that)
- Set stroke ranges rather than random (again an array to select) so that we can get more 'suggestive' or erotic ranges like 0 to 10 for example.
- Arousal per stroke rather than per range, fractional and so the notify sound comes when the range changes and not when you're getting progress
- Introducing the breathing/close

for the player/user of giving pleasure. (Naturally this is true at a particular layer of reading Robert's game too, but not – I think? – within the narrative framing of the game's world at least.)

So I think that specific idea of *relating* differently to the UI makes a difference. I also think the sheer minimalism involved is an important distinction. Robert still had to ask related questions: how do you pleasure a car? (Answer: stroking the gear stick, shifting gears) How does the car express pleasure? (Answer: RPMs, engine noise, ...). Etc.

One important realisation I had about this in the bath (I'm forever writing about insights in the bath, and I apologise to anyone who feels like I'm leading them to visualise that, it's not my intent – it's just a reporting of context) is that you shouldn't not make a "technology masturbation game" just because there's already one "on the market". This was partly Robert's point in his talk: the world needs more Gay Sex games, it needs more sex (other than gross porn) games. Why stop at one? And importantly, in making more than one with similar mechanics (this is true of Sepe's Cumshot too) we're actively examining that mechanic, thinking it through. A "stroking" mechanic is a worthwhile thing to engage with more than once! If shooting can be examined a billion times by games, surely a little bit more masturbation won't hurt.

(I should probably post some version of this argument on my website.)

Okay. Okay.

(Also while I'm writing this let me note that I wonder if there are some possible forms for process writing that

might be useful in here – notably a task of writing about the current project's design in relation to highly related/similar other projects as a way to fight out how they are distinct ideally.

(Also I'm reminded by Robert's discussion at the symposium of his artist's statement process and the relationship to the Manifesto idea I've produced in the past. Doesn't really matter what you call it obviously, but does matter that you write it. I should write one now. I will.)

### Thursday, 3 May 2018

#### 14:52 – Honestly, I'm going to get back to this

Now that the semester is over and the Games as Research symposium is over and A MAZE is over and although I have things in the future too... I intend to just settle down and finish this game. Perhaps I will read this entry in two months and think, ha! Yeah right. But hopefully not. It's becoming important to just finish it regardless of whether it is a heartbreaking work of staggering genius or not. Let's face, it isn't. But I still think the idea is strong and interesting.

One thing just to briefly say is: there's definitely something to think about with this project (and any other) in terms of the emotional resonance (or lack therein) of just looking at your current prototype situation. There's some kind of problem with the way the prototype looks such that whenever I return to this project I feel deeply uninspired by it... something is wrong with it. What is wrong with it? It's important because there's of course an emotional component to all this – you have to want to do what you're doing, and a big part of that

## ***It is as if you were making love***

is looking at its current state and being inspired to continue.

I wonder if it's actually just too clean looking? Is this a situation where I need to reference another style again? Should I be returning to the idea of the Win95 styling of *It is as if you were doing work?* It makes them a nice pairing for one thing, feels more dehumanising but with a lighter touch than total minimalism. There's no reason for this thing to look 'stylish'... perhaps that's the issue... it needs to say "user interface" not actually be a slick user interface. I will try putting in the win95 styling from the previous game then. Surprised I haven't thought of it earlier. Would look especially eerie on a cellphone?

Also: `annyang` doesn't work on iOS (it does work apparently on Android + Chrome). Also: `annyang` doesn't work in Safari etc. Basically it would be a major limiting factor, and so something to put in at the end if at all - need to focus on the core experience. `ResponsiveVoice` will still work though.

Sound is really important.

I should try to write another manifesto attempt. Get my eye in. Then change over that style file of mine.

### **Sunday, 6 May 2018 18:39 – Windows 95**

I changed over the style file and also redid the styling of the pips to look more Windows-y. At that point it also somehow seemed to make more sense to have the slider click to different settings rather than slide smoothly among them, so I also reinstated that (default) behaviour. So it's quite a different slider at this point, feels different, looks different.

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I'm starting to think it should be inside a little application window (as in I just thought of that exactly now). Basically an emerging design guideline that's extending from the Windows 95 reskin is around the application-iness of the experience. I'm once again going from something that imagined as smooth and futuristic toward something that's more awkward and chunky. Why? There's the comedy value going on in there, and there's the desire to have it fit with the previous game – is it an actually appropriate move? I guess there's a sense in which the win95 UI look kind of feels more "authentic" in some way? It grounds the interface with a personality and a vibe that it wouldn't have had. In fact if you think about it that way, you could also have different skins which would be like different partners – you'd have the very awkward slider that clicks between settings and the smooth future-slider, and so on. The round knob and the square knob. And so forth. The skeuomorphic slider, the minimalist flat slider, the 3D slider. And so forth.

So as always this kind of actual attention to the visual (and interactive) aesthetic is generative and positive.

It also pushes me to re-question the ideas around outputs and indicators. I'd been assuming the slider would express its pleasure via more anthropomorphic things like vibration, pulsation, etc. But with the windows95 version it's much less clear that makes sense. Maybe there's still a possibility of shaking? But I'm suddenly more inclined toward other forms: a progress bar that could show current intensity of pleasure? Or "progress to orgasm"? (Completion. The happy ending.) Other

## ***It is as if you were making love***

As you can see, the instructional text (placeholder flavour text in that image) is now in one of those non-editable text boxes complete with beveling etc., and I've added a progress bar. Putting the interface into an application window drove those decisions, because it immediately needed to look more 'application-y' that it did with just a slider and plain text. The progress bar, in particular, began to feel like a good direction because the aesthetics were making me ask more and more 'how would 90's Microsoft design the UI and feedback process for this sex game?', my own personal WWJD. This kind of interface feels like it would be much more direct and obvious about registering how the sex is going – it would just tell you. Again, the visuals drove the design.

The game isn't finished yet, but the current UI layout now includes a split between the idea of instructions of how to use the slider (what to set it to) and the output of the system in terms of how it's feeling and any more subtle things it wants (speed of input is going to be a thing). Again, following the lead of the aesthetics, I added labels to the different elements to be even more explicit about what each component is for, while maintaining a kind of neutral 'computer interface language' about it all. (That placeholder text in the 'output' field has to go, for example – language is a big next question for the project.)

I guess that concludes my little tour through the aesthetic history of *It is as if you were making love* to date. It's not impossible I'll change everything again, but I doubt it – the change to the Windows visuals just feels right and has opened up a particular framing of

the design that I find pleasing, funny, and workable. It's a gift that keeps on giving, too – for instance, in thinking about how to integrate sound into the project, the obvious answer is (again as with *It is as if you were doing work*) to use Microsoft system sounds.

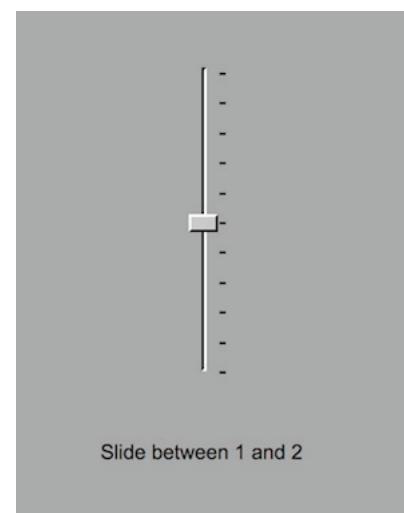
There is joy to be found in asking yourself how to best use the Microsoft 'ding' in a sexy way...

### **Friday, 8 June 2018 7:12AM**

It's Friday morning and so I'm doing my morning writing. Given that I'll most likely devote the majority of my attention to this game today (aside from a workshop I have to go to), I figure the best writing task for the morning would be to look at where I'm at and figure out where this thing goes.

#### **Where I'm at**

At this point I'd hazard to say that the interface for the game is pretty much



Slide between 1 and 2

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to do the actual design work necessary to make progress – I was perpetually stuck with the basic idea that you needed to slide the slider's knob across a range of values repeatedly, but couldn't get further with that. Contrary to any ideas that might still float around about aesthetics (visual and other) being secondary to mechanics/rules, this design quandary was very much coming from the visuals of the game. In going with this very clean UI, I was implying qualities of the underlying interactions one would have with it – they would be sophisticated, with that sophistication lying beneath the surface, they would not be funny. The implication of underlying complexity really got me – by having so little UI to guide the experience, I was putting myself in the position of needing to develop subtle methods to communicate the 'pleasure' the UI was receiving, how well the player was performing, and so on. It very much led me into panicky cycles of thinking about how to develop an intricate system that would simulate the underlying arousal of the UI. The implication of seriousness is a huge problem too, of course, given that I generally prefer to make work that is comic.

The 'solution' to these problems wasn't some kind of clever systems-thinking or better writing and better minimalist UI, it was to shift the styling and layout of the interface entirely. To *Windows 3.1/95*. Again. Because *I had run into exactly this set of problems before* when I was developing *It is as if you were doing work*. In that game, too, I started with a slick and futuristic UI only to realise that it was holding me back from

the comic element that (I think) good critical design needs. Switching from its minimal UI to the Windows 3.1/95 styling unlocked the personality of the application and allowed me to move ahead with design. So I renamed the sex game from *UI Sex Game* (working title only of course) to *It is as if you were making love* at that point, and edited the CSS until it looked more Windows-y.

This change is clearly minor in terms of function: in fact it's exactly the same, but it gave *permission* to think differently about the project and had underlying *implications* about appropriate design moves. Notably, it made the game a kind of *sequel* to *It is as if you were doing work* and therefore put it into a related space of half-serious half-comedy play, a much better fit for a sex game in particular, I think. And in fact the visuals themselves did some design work for me: in this new format, it didn't make sense (to me) to have a slider that moved smoothly and continuously between values. Given the 'pips' marking the Windows-style sliders, I shifted to a slider that 'clicked' between the different values, leading to a ever-so-slightly clumsier experience of using it. Another way to deflate any heightened expectations or claims of idealised sexiness.

Moving forward with this new narrative context implied by the UI visuals, I realised that to fit properly with the *Work* game and with Windows aesthetics, this game shouldn't be presented as a single-page web-app, but rather should be implied to be an application running on the phone (or PC), so I put the interface elements into a window to capture that idea.

read-outs? Sounds might need to again draw from the windows system sound set? How can they then be made sexy? Repetition, out of control at the end. Still like the idea of breathing in there somehow. Dialog boxes make a lot of sense (but are a problem on mobile). (How much sense does mobile end up making anyway if we're going for this aesthetic?) Even then you could have single dialog boxes. "That feels so good." "Okay, got it". Ha ha.

Okay well it seems kind of like this is going to make my job easier?

I think it's plausible to go back into it and implement some of these ideas more simply and see what happens. Uh huh!

## **Wednesday, 9 May 2018**

### **09:48 – Feedback and input in a Windows 95 setting**

I wrote the following notes in my notebook yesterday at Myriad in the afternoon. There aren't really any diagrams/drawings of notes so I'm just going to type them up in order to include them.

#### **Let's rethink feedback?**

- In the win95 context I'm not so sure the same kinds of animation effects make sense...
- Sound – makes sense to use the classic windows sound palette – could maybe glitch/play with them a bit for interesting effects. Live would be amazing, but perhaps more likely just prerendered files. Cumulative sound, cacophony, layered sound, repetition, stuttering, jumping.
- Voice – I like the idea of using Responsive Voice in the project – the UK English Male voice has a sort of sexiness to it? He sounds saucy to me

anyway. "I love it when you x" comes out really well. Maybe the voice can be kind of 'explicit' in its language: "caress my menu bar", "highlight my instructions". It could start out just narrating the texts on screen but over time perhaps become detached from them and say other things to create something a little more uncanny, a suggestion of being out of control/urgent? Interrupting itself? Also fun to get it to say "sounds" like "mmmmmm" and "aaaaahhhh" etc.

- Dialogs – textual feedback but also image feedback plausibly? Kind of weird because it appears over the top of the actual slider. Especially weird on mobile so I'd have to check out the effect of it. I think it's valuable. Perhaps animated gifs could be exhilarating – again perhaps later in the piece...
- Other UI – there's the obvious "instructions" panel that needs to be represented, the idea of having the whole app be in a window anyway, and perhaps even returning to the idea of a progress bar... it could tremble between values sometimes to represent being on the verge. Or it may naturally do that anyway. Gives you a sense of whether what you're doing works, which is good.

(I note that this is a pretty limited palette of outputs, but maybe that's actually fine/good.)

#### **Input? Anyone?**

- Just sliding the slider on mobile feels surprisingly good
- Feels noticeably different to do long versus short strokes, and transitioning between those smoothly feels like something. Important to evoke this.
- The idea of 'set me to 4 and don't touch until I tell you' or something along those lines. The idea of NOT inputting

### ***It is as if you were making love***

- being an erotic act (as it is in human sex too)
- Maybe a free-style version where you're not getting instructions? Or perhaps it starts free-style and reacts and you read the reactions to do 'better'? There's erotic value in not being told what to do but rather exploring the different possibilities. And there's erotic values in reading your partner. The only thing is wanting to avoid it being too obtuse. But still "that feels so good", "slow down a little", "longer strokes please", etc. Hot stuff.
- What could the underlying pleasure algorithm take into account?
  - Speed (strokes per second/minute? You could even include this in the UI, your current rate, heh)
  - Length of stroke (from where to where, or full bar, top mid bottom thirds, top half, bottom half)
  - Locations (where on the bar)
  - Nothing
  - Other interactions? Stroking the menu bar? Highlighting the text?
- Can you get it wrong? Seems like that's probably important. If it wants, say, lower half of the bar it should allow +/- 1 in terms of going too far, but more than that starts to multiple discomfort/lack of excitement.
- You could ask for specific speed in strokes/second, or alternatively a speed or a relative speed (slower, faster). These things could even be explained in an informational panel (which I need anyway), as a way of learning about your partner...

**Monday, 4 June 2018**  
**7:33AM**

I'm now back from a bunch of travel (Yellowknife workshop, wedding in Teano) and also back from diverting

to a completely different game (*b r 1*). Obviously this *Love* game of mine has been suffering from a lack of, well, love and attention. It's probably worth asking why...

Why?

The 'easy' answer is that I don't understand it well enough and that I'm being held back from finishing it/making progress because I don't have sufficient clarity about what it is, what it does, what it's for. Another 'easy' answer would be that I don't like it, it's not interesting to me, I don't *feel* it any more.

Given that people still laugh when I explain the basic concept of the game to them, I think the idea does have merit to it. I think there's an element here where I know what the basic thing it (masturbate a slider) but I've maaaaaybe been overcomplicating how that should work. In particular I've frequently lost myself in questioning what the underlying 'AI' should be like, or how I'm going to detect subtle forms of pleasure-giving and so on.

BUT why should it be subtle?

Consider (and I may have already written this), that the narrative/speculative positioning here is complex but offers an easy answer. This is a game that exists to facilitate humans in feeling like they're giving pleasure to someone/something. One answer to this is that therefore the pleasure-giving should recreate the complexities and subtleties of real love-making, in order to seem more authentic. BUT in a sense that's a hindrance if what you want is just that erotic thrill of pleasure – it's not necessarily the *difficulty* of giving pleasure that makes it pleasurable to do so (or not only that). It's the

### ***It is as if you were making love***

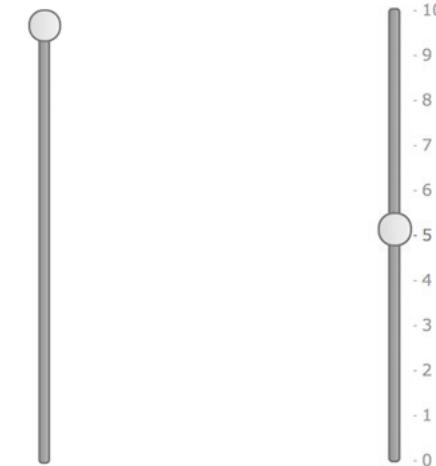
*repository* in late March, including a *design journal* and so on, and I wrote an introductory post about it back in early May. It's been a sporadic process thanks to the fact I was teaching, travelled to Yellowknife to run a workshop, made *b r 1*, and went to Naples for a wedding. However, I'm back in the saddle with it and wanted to write a short piece about a specific element of the game's design and development: its aesthetics.

*It is as if you were making love* started out life as just a slider on a webpage. In that incarnation I was focused on having a very smooth experience with minimalist graphical flourishes, so the slider was just a gradient-filled round handle on a slender bar.

I was preoccupied at that time with my understanding of the game as futuristic, because it's a part of the

larger *Speculative Play* project I work on with my colleagues *Rilla Khaled* and *Chris Moore*. In that project we make playful, interactive experiences that reflect on alternate presents and possible futures, so this game is meant to come from a future where physical sexual intimacy has been 'deprecated' (too icky? too personal?). However, humans still want some sense of giving erotic pleasure to someone else, and so this application exists to provide that service: you give pleasure to a computer (or at least the software running on it). As an application from the future, I immediately jumped toward the idea that it would have a very slick interface, though I did end up making the concession of having some instructional text to avoid total confusion.

However, in this clean and minimalist iteration of the game, I struggled



**Move fast between 2 and 4.** **33**

### ***It is as if you were making love***

- It makes me think the game could even start from a 'desktop' where you have to doubleclick/tap the icon to launch the application itself?
- chord – a kind of negative sound (not at all like the one from Work – perhaps I used a 98 sound instead?). Weird sound...
  - ding – the classic something happened, short and sweet, high pitch
  - tada – congratulatory horns kind of a sound
  - the windows sound – a startup sound, ambient and chill (and apparently by Brian Eno)

I'm struck by the fact these are very different to the sounds I used for Work. I'm going to download the 98 pack and check them... nope win98 sounds are fucking weird, too space-y. What about NT4... same as win95 with a couple of extras (ringing, logon, logoff). And then 3.1... pretty well the same as NT4 but fewer of them. Windows 2000... aha, these are the sounds I tended to use in Work... pretty nice range here.

As I listen to the various sounds I'm mildly stumped about how they should actually feature in the game except for the fact I really do like the **fact** of them being these awkward corporate sounds to be incorporated into this sex game.

In terms of events that could be scored...

- Program starts (obvious candidate for the startup sound)
- Dialog opens (or app opens) (obvious candidate for the same 'dialog' sound as Work to maintain a consistency)
- Incorrect dialog answer (obvious candidate for same 'ho' sound as Work)
- Correct dialog answer (obviously candidate for the same 'ding' sound as Work)

- Slider to correct position (candidate for a ding as well)
- Change of desired range (could be a place to use one of the other sounds) < tada could be good here? Like a 'leveling up'?
- Change of progress bar (only if it's less 'continuous' I suppose?)
- Change of feedback text (could be a place to use one of the other sounds unused...) < 'notify' is good for this
- Orgasm (candidate for some kind of insane mix of them all at one, looping?)

Looked at this way I'd say I should just load up all the sounds, play them, and see how playing the game sounds at that point... would the dings become overwhelming for the slider? Maybe there's a softer sound like the 'start' sound which is a kind of click...

Would have to think about sounds overlapping, could get ugly, but maybe that's rad?

The logoff sound is pretty funny for when the window closes post orgasm? ir\_inter seems like it could be good as building toward orgasm?

So anyway, next up is just to populate the soundscape and see how it feels. Boom.

### **Thursday, 7 June 2018**

#### **6:55AM**

(Since it's the morning which is when I'm trying to write these days, I figure I can write a bit about the shift to Windows 95 as a possible post for my website.)

A couple of months ago I started in earnest on a project that I was calling **UI Sex Game** at the time, but then became ***It is as if you were making love***. As per the the **MDMA** process, I started the requisite **code**

### ***It is as if you were making love***

**fact** of the pleasure given. As such the game can certainly make it fairly easy/ straightforward/non-oblique as to how to give pleasure (set me to 2, set me to 4 set me to 2 set me to 4...) and what becomes more important, maybe, is the **reaction** of the interface... proving that you are, indeed, successfully pleasuring it (through dialogs, sounds, perhaps other visual effects).

FURTHER, it's not the case either that this project requires subtlety and complexity because it's a complicated idea – it's not that complicated as an idea, so why make the interface to it complicated? I specifically **don't want to hold back the player** in the non-speculative sense, in their not-replaying-capacity from 'getting it'.

So in brief I suppose I'm trying to give myself permission to **massively simplify** the way I'm thinking about this game. I think the shift to the Windows 95-esque aesthetic helps with that (it doesn't look particularly capable of complexity or subtlety). I think I need to radically simplify how pleasure works...

I think just desired settings that are reported such that they create a specific kind of motion. I think an idea of speed makes sense because that's highly erotic. I think a purely cumulative pleasure idea makes sense too – there can be pleasure and neutrality, rather than pleasure and anti-pleasure... etc.

With those guidelines, can I then finish the game this week? Tomorrow? If I work hard and honestly? I can try.

SO the objective is to return with a far simpler idea of pleasure. It builds up, it doesn't decline. It goes up when you set the correct setting, it cares about how fast you move the slider (within reasonably large margins of error let's

) say). It consistently oscillates between two settings for an appreciable amount of time, then shifts its range, so you can get a rhythm going. It has dialog feedback (which interrupts the act) and voice feedback. But no voice input as that's a) too high-tech and b) unnecessary and kind of too intimate? Implying too much sophistication of response.

Ending could literally just be a dialog box and repeated beeps. Har har.

OKAY. OKAY BUD. OKAY.

### **Wednesday, 6 June 2018**

#### **7:17AM**

Ha ha, hi. So I didn't work on the game at all yesterday, but I have now designated today as the Day of Love where I will work on it pretty much exclusively (other than a meeting with Jonathan about our game Chogue). As such, I'm trying to use my writing time in the morning to write about that game, and perhaps the best thing to do just now is to literally try to write down what I think I'm going to do today.

- I think I want to change the UI so that the slider and associated UI elements appear inside a 'window' with the blue trim etc. I think that establishes it more firmly as an 'application' and gets further away from the streamlined look of just the slider on the page, which is now a holdover from when the interface was trying to look more neutral-contemporary or something. So the slider should be in a dialog box and the title of the box should be the title of the game (I suppose?). Importantly this should work for mobile.

- I need to decide on the instructions. Currently they are in the form "slide between 0 and 3", but even simpler would be "set the slider to 0" and then "set the slider to 3" and then "set the

### ***It is as if you were making love***

slider to 0". A good thing about that is that it avoid the language implying the masturbation thing – you're just setting the slider to a sequence of numbers, but the outcome of that sliding is masturbatory. However that language "Set the slider to 0" feels pretty awkward. It raises the question of whether the game should have an "I" involved in this, e.g. What if it's "Set me to 0", "Set me to 3"? That does personalise it and makes it more directly a 'relationship' (ala The Media Equation for instance), but therefore also drifts away from the implied neutrality of the win95 aesthetics?

- Furthermore, where do the instructions go? If the dialog is the application, then they need to be inside the dialog box. Just in a text panel I suppose? I can look at some win95 dialogs, let's see. So a text field is not impossible, though it implies you'd be able to edit it. But perhaps okay if it has a grey background. The user definitely needs somewhere to look to understand what to do, and it needs to suggest in its UI that its a text that changes rather than is static (which plain text with no accompanying UI would imply).
- This raises a question about the kinds of instruction. There's the basic idea of what to set the slider to, but then I've also been thinking I want a speed element – so that the UI should be able to say "faster" or "slow down" or whatever in order to add a temporal element to the whole thing. Easy to track "time since last correct setting". But having multiple text panels feels really awkward? (This is of course the sort of thing I should draw in my notebook at some point soon.) I wonder whether I can indicate the "set me to x" idea in the slider UI itself by highlighting which one it "wants" at any given moment, and just save a single text

panel for feedback which can include "faster" etc., but also just "that feels so good" and so on.

- This put me into a brief reverie about a kind of text-input component (similar to the voice-input, but low tech I suppose) where you get a pop-up dialog "Tell me you love me" or something and you have to enter "I love you" to get some kind of bonus amount of sexiness. Maybe it could even be modal and only accept the correct entry "I love you" "I want you" "I need you". Awkward on mobile but I almost enjoy that about it, with the little keyboard coming up and interrupting everything?
- This idea of a pop-up leads to the question of how to offer feedback to the player. Part of an option is a progress bar (to orgasm that for initial purposes could only ever go up, but if you wanted some kind of complexity could conceivable drop a bit if you fuck up). Part of an option is sound (perhaps cumulative such that you start getting sounds eventually on each setting, and then continuously? They should be win95-esque sounds clearly). Part of it is perhaps that text panel for the faster/oh yeah/etc. I did think about voice originally, but I don't feel that fits. I similarly am not sure that any kind of motion in the UI will make sense because it doesn't match the style... clearly it could vibrate etc., but that may pull us out of the retro vibe?
- Some kind of "stop" instruction is good I think, with no setting indication and the idea that you should just not touch for a couple of seconds.... perhaps especially when it's "close"? (You should not be able to keep going and make it orgasm because that would be creepy, so I guess you let the person keep going, but there won't be any progress until they actually stop?)

### ***It is as if you were making love***

- So I guess the biggest unresolved question (beyond UI layout, which is important) revolves around popups and whether it makes sense visually to have further dialogs pop up over the top of an already existing dialog? Especially on mobile that could look really weird? But perhaps not perhaps it's fine? That's just something that has to be tested ultimately.
- In terms of actual sexiness tracking and assuming we don't ever go down for now: just add some amount to overall arousal with each correct setting, if there's a speed request, then add a multiplier based on their pace (and obviously tell them if they're still too slow/fast). When the number reaches 1.0, that's the end of the game.

- Speaking of the end of the game. My first approximation would just be a dialog that says thanks and then perhaps the game window just disappears and leaves you there? "Thanks for playing"? Hah. Anyway, there are options there for different kinds of comedy I suppose, but one could also offer up a different emotional valence for the end possibly. Big question is how much of a song-and-dance there should be at the end – flashing colours? Shaking? etc. Like how do you indicate the computer's orgasm? Should it be human-like (at least metaphorically) or should it just be "process complete"? Will have to try both perhaps, or find my way to an answer through the rest of these decisions.

I'm sure there are other decisions yet to be made, but I kind of feel like this is a lot of it. So for today:

- Make the version with the slider in its own little window (test in mobile)
- Add a text panel to indicate instruction modifiers and other phrases

- Add a progress bar (need to think about how this is going to look)
- Highlight the setting to slider to on the slider (try this over the version where it's in the panel)
- Add a popup dialog with a text to type in and test on mobile (make it modal)
- Add a basic ending (let's say just a dialog that says thanks for now)
- Add the concept of speed as a multiplier (or anti-multiplier)
- Add random/situational phrases to pop up in the text panel

I think if you do all that you'll be doing well.

### **Wednesday, 6 June 2018 16:37PM**

I've now implemented a pretty substantial amount of this stuff with just the last three in that list above to go in some sense. Made some other design decisions along the way, such as ending up splitting the UI into the slider, input instruction text area, output text area (for feedback), and the progress bar. Also added modal dialogs that can be used to require text entry which is pretty fun.

As I was working (and while talking to Jonathan after lunch today) the whole sound thing came back up. So there's that question of how sound can play into this as it'll make a pretty substantial difference to the whole experience. There's a pretty limited palette of sounds to work with but they can no doubt be expressive. Looking at the set I downloaded we have

- chimes – which I used for a dialog opening, has an upbeat 'something happened' effect. Given I'm kind of using the same universe, this could be used when the modal dialogs open, and plausibly even when the application starts.