

Teaching Game Design for a Reimagined World

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> GAME DEVELOPERS CONFERENCE MARCH 18-22, 2019 | #GDC19



Session Overview

- 1. Brief bio
- 2. Course facts
- 3. Where the idea came from
- 4. Syllabus and methodology
- 5. Standout games
- 6. Results
- 7. Why this matters

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Belo Horizonte, Brazil



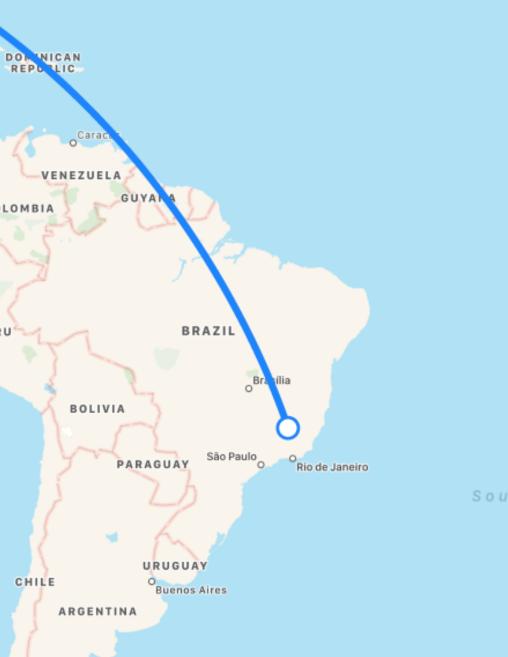
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Pacific ean



North Atlantic Ocean



Background

- **1999–2010:** Graphic Designer + Art Director
- **2010–Present:** Game Designer + Artist
- **Currently:** Visiting Assistant Professor at UCSC in the Art & Design: Games and Playable Media program

Graphic Design + Game Design

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TICKE

Digital Sculpting



3D Art

Sin Sol/No Sun by micha cárdenas

Forest point cloud imagery by Abraham Avnisan 3D art by Marcelo Viana Neto Additional 3D art and animation by Adrian Phillips Character concept by Morgan Thomas Sound by Wynne Greenwood

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Speculative Futures: Games for a Different World

In-game screenshot from **Ecopolis** by Annabel Maokhamphiou, Jacob Levine, and Margaret Patrick



Course Description:

How do space exploration games play and look like without colonialism? What about sports games in a world free from gender normativity? First-person shooters in a world without war? In this studio course, students will play, discuss, and produce digital and analog games that imagine a world in which major social justice challenges have been overcome.

Basics:

- Upper-division elective in the Art & Design: Games and Playable Media program at UCSC
- Pre-reqs: foundational game design and history courses, but can be waived by instructor
- Fulfills a "media creation elective"
- 10-weeks (quarter system)

ign: UCSC d history or

Who takes this course?

- 20-25 students per quarter
- Majority Games & Playable Media, some CS
- Mix of juniors and seniors with some sophomores
- Wide range of technical skills \bullet
- Majority underrepresented (POC, non-male, first-generation, etc.)

Learning Objectives:

- Deeper understanding of how games communicate/ ulletgenerate concepts.
- Better-situate games and game design within ulletcontemporary socio-political systems.
- Acquire competency in designing games that • investigate pertinent questions of our present.
- Acquire broader game literacy and game design \bullet vocabulary.



In-game screenshot from **Ecopolis** by Annabel Maokhamphiou, Jacob Levine, and Margaret Patrick



Our futures look bleak.



The case of No Man's Sky





What you do in No Man's Sky: exploration, survival, combat, and trading.



The pilot clicks its beak to indicate that it's

Make an offer lifeform Sell items to th Buy items from the lifeform

Ammr ushisti!

Exporter Tevikudadu Current Gek standing: Customer

open to trading.

It might also be open to discuss the sale of its starship.

n the lifeform's starship



Photon Cannon

We can imagine a quintillion different worlds but we're still doing the same stuff in them.





Paraphrasing Fredric Jameson...

It is easier to imagine the **end of the world** than **a better world**.

Hypothesis:

What if we began by imagining a different, better future and then designed games for it?

(how we did ft)

In-game screenshot from **Ecopolis** by Annabel Maokhamphiou, Jacob Levine, and Margaret Patrick



3 Pillars:

Self-efficacy Autonomy Prefiguration



Self-efficacy:

To imagine a different future, students must believe in their **already existing** potential for creative imagination and work within a structure that breeds confidence.

Autonomy:

To believe in their vision, they must design it from **their own** passions, lived experiences, and aspirations.

Prefiguration:

To own it, they must live and work as if it's already here.

CLHSS VALUES

COLLABORATION OPEN-MINDEDNESS RESPECT CONSTRUCTIVE CRIT OWNERAIP OF MISTAKES WILLINGNESS TO MENTOR OPEN/INCLUSIVE ENV. 11 LOMM JOY/SERIOUS FUN CHALLENGE ÉACH OTATR WORK/LIFE BAC.

RADICAL TAKE RISKS EXPERIMENTATION AWARENESS RESPECT BG UTILIZE STR. GRATITUDE FLEXIBILITY



CLASS VALUES

129-02 SPEC FUTURES 124

DON'T YOCK MY YOM CONSTRUCTIVE CRITICISM PBAD ATTENTIVENESS ASSUME GOOD FAITH FUN JOY LOVE ENCOURAGEMENT WHOLESOMENESS RESPECT SKILLS No SLURS

SPEAK YOUR TRUTH WE'RE ALL LEARNING FOLLOW THROUGH REASONABLE GOALS ASK FOR HELP OPEN COMMUNICATION EMPATHY LIFE BELIKE THAT F. I. S. H.

TAKING GARE OF OURSELVES

- POJITIVITY
- (OMARADERIE
- PATIENCE
- NO GRUDGES
- SERIOUS FUN

Course Structure

Research

Prototype

~2 weeks

~2 weeks

Production

~6 weeks

Research

Prototype

Production



Research in Spec Futures

Selection from course readings:

- On utopia/the future: Ursula K Le Guin, Mark Fisher, Thomas Moore
- "Do Artifacts Have Politics?" by Langdon Winner
- "Games as Speculative Design," by Coulton, Burnett, Gradinar
- "Places to Intervene in a System," by Donella Meadows

Individually-assigned readings

Self-assigned readings

"Strange" games library

Present

Research

Transition

Class exercises

Future

Research Prototype Production

Present

Research

Transition

Class exercises

Future Research Prototype Production

Present

Research

Transition

Class exercises

Future Research Prototype Production

Present

Research

Transition

Class exercises

Future

Research Prototype Production

Research Phase (present)

- 1) Definitions
- 2) Presentations

Research Phase (present)

1. Definitions

Class exercise to identify and define major economic and socio-political systems. Create shared Google doc to collect findings and future reference.

Goals:

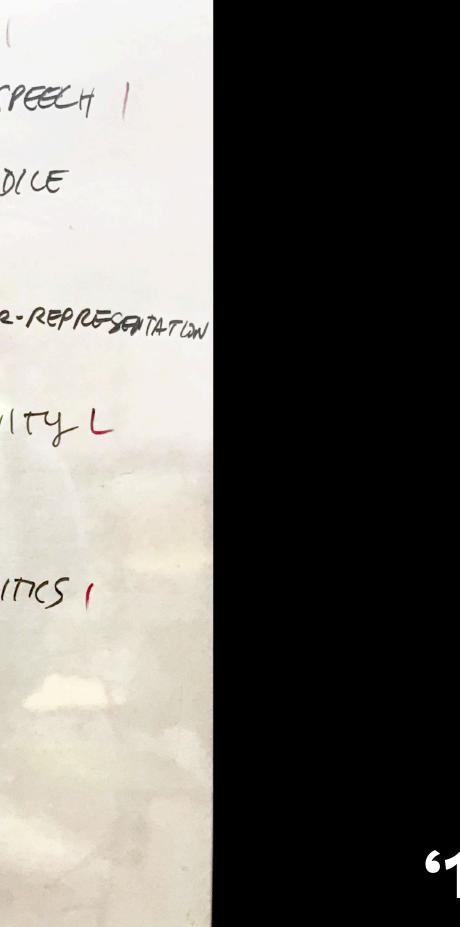
- Create a shared vocabulary
- Class cohesion
- Develop self-efficacy

SYSTEMS/ISSUES RACISM/WHITE SUPREMACY NECROPOLITICS L COLONIALISM WAR POLITCS NEOLIBERALISM HETERO NORMATIVITY GENDER BANALIZATION L FOOD INJUSTICE MENTAL HEALTH/ILLINESS

AUTOMATION FREEDOM OF SPEECH ! RELIGIOUS PREJUDICE CAPITALISM -HGEISM | UNDER-REPRESENTATION CHRONONORMATTVITY L MYSTICISM O RESPECTABILITY POLITICS 1 ABCEISM 1 EDUCATION

PATRIARCHY

COLORISM L

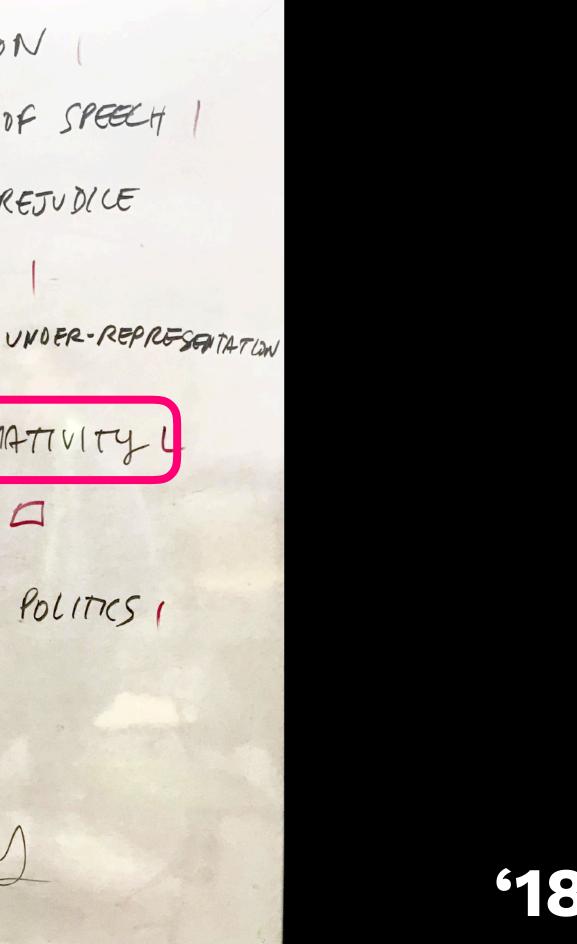


SYSTEMS/ISSUES RACISM/WHITE SUPREMACY NECROPOLITICS L COLONIALISM WAR POLITCS NEOLIBERALISM HETERO NORMATIVITY GENDER BANALIZATION L FOOD INJUSTICE MENTAL HEALTH/ILLINESS

COLORISM L

AUTOMATION FREEDOM OF SPEECH RELIGIOUS PREJUDICE CAPITALISM -HGEISM CHRONONORMATIVITY L MYSTICISM D RESPECTABILITY POLITICS 1 ABCEISM EDUCATION

PATRIARCHY



SOLIO-PILITIAL ECONOMIC SYSTEMS

CAPITALISM DEMOCRACY SOCIALISM

ANTHORITARIANISM

~ COLORISM

· IMPERIALUM - COLONIALISM

NATIONALISM 02

-Arcism ANARCHISM

CLASSISM PATRIARCHY

NEOLIBERAUSM

COMMUNISM

SEXISM

· RACISM

AGISM

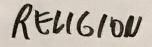
RACE & NATIONALITY

ABLEISM

ETHNOCENTRISM

ANTHROPOCENTRISM BUNNER & SEXUALITY

EDUCATIONISM



SOLID-PILITIAL ELONDMIC SYSTEMS

CAPITALISM	DEMOCRACY		;
SOCIALISM	- COLORISM		
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	? NATIONALISM		Ar
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ANARCHISM	CLASSISM		2
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NEOLIBERAUSM	SEXISM		
Communism	AGISM		

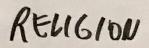
RACE & NATIONALITY

ABLEISM

ETHNOCENTRISM

NTHROPOCENTRISM

EDUCATIONISM



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129-02 Working Definitions

Necropolitics

Socio-political views, motives, and abilities that decide who should

Racism

Preferred treatment of individuals based on the belief that one race superior to another.

Colonialism

Idea that the human (maybe white) race is supposed to colonize other

Neoliberalism

Socio-economic idea that sees competition as the defining character human behavior and citizens as consumers.

Heteronormativity

The assumption that heterosexuality is the norm and any difference deviation.

Gender

Uh...

Banalization

To make a potentially serious topic overused/overdone to the point

Food Injustice

Food production not allocated effectively -> people starve/malnouri

Discrimination based on Mental Health/Illness

Discrimination based on alterations in thinking/etc. compared to a response towards the stress.

d live/die.
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of boredom.
shed.
typical

Freedom of Speech

Freedom of individual or group to articulate their opinions/ideas with of condemnation or censorship, unless... it causes harm.

Religious Prejudice

Discrimination based on religious view.

Capitalism

Socio-economic system. The mass expression of ability to take at the consequence of another's loss.

Ageism

Preferred treatment of individuals based on age.

Chrononormativity

The idea that our paths are set to unfold as dictated by the modern containe.

Mysticism

Ascribing godlike qualities to individuals and concepts.

Respectability Politics

Attempt of people within marginalized groups to push their own commun conform to the norms of the groups in power.

Ableism

Discrimination based on the perception that disabled people are unnecelless than human.



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cultural	
nities to	
cessary or	

Research Phase (present)

2. Presentations

Students form groups around shared topics and create presentations for the rest of the class. They identify existing proposed alternatives and design a simple game about their topic.

Goals:

- Fill gaps in understanding
- Foster self-efficacy through peer-to-peer instruction
- Begin forming final project groups

Cultural impart GENDE A D IMPACT ON CULTURE PATRIARCHU BINARY B) IDENTIT ERFORMANCE ROLLES INA-TION PRONOUNS BINARY 2. D #GIAMERGIATE, # comics GATE, E SINGULAR MISOGYNY IDENT MRA terms 8. 5. ROLES? -rans - nonbinary VIOLENCE PERFORMANCE? GENDER DISCOURSE CIJGENDER E. EXPRESSION ONLY 2 (ASSHOLE) PISALIMINATION 3 fomme, masc, etc. GENDER IS BAD, ELIMINATE TRANS +NB (PAY GAP) GENDER IS GOOD, DE MORE INCLUSIVE THE Terminology (beginning) define: TRANSPHOBIA FEMINISM + WOMEN'S RIGHTS TERFS : ((TRAWS MISOGYNY) TERF-TRANS EXCLUSIONARY RADICAL FEMINIST BIOLOGY Cis TRANS INTERSEX Non-Binary (issues)

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(INTER SECTIONS
i	RACE
1	SEXUALITY
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Research Phase (present)

Sample Presentation Topics

- Patriarchy
- Racism
- Neoliberalism
- Ethnocentrism
- Anthropocentrism
- Classism
- Ableism



Present

Research

Transition

Class exercises

Future Research Prototype Production

Boss Battle (transition)

In-class exercise.

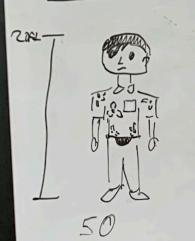
Design a classic video game boss battle using your research topic as inspiration and create a paper prototype.

Your boss should have minions that mirror your topic's allies or subordinate systems. The player(s) and their abilities should represent the possible counters to your topic.

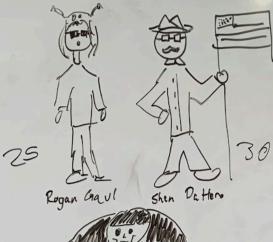
Goals:

- Cathartic transition from present to future
- Begin group formation

mss



Minions

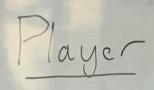




· Cultural exploitation - plants damage markers on 3 random locations Ability

· Tourism' -Deals 5 dumage to all players "SPEAK ENGLISH!" - Player less movement

Ability Rosan: Cutural Isnorance -locks off space shn: Manifest Desting -Mores players act of space Govi Gentricy society -Plants damage mark · Does 3 damage to any play currently on space





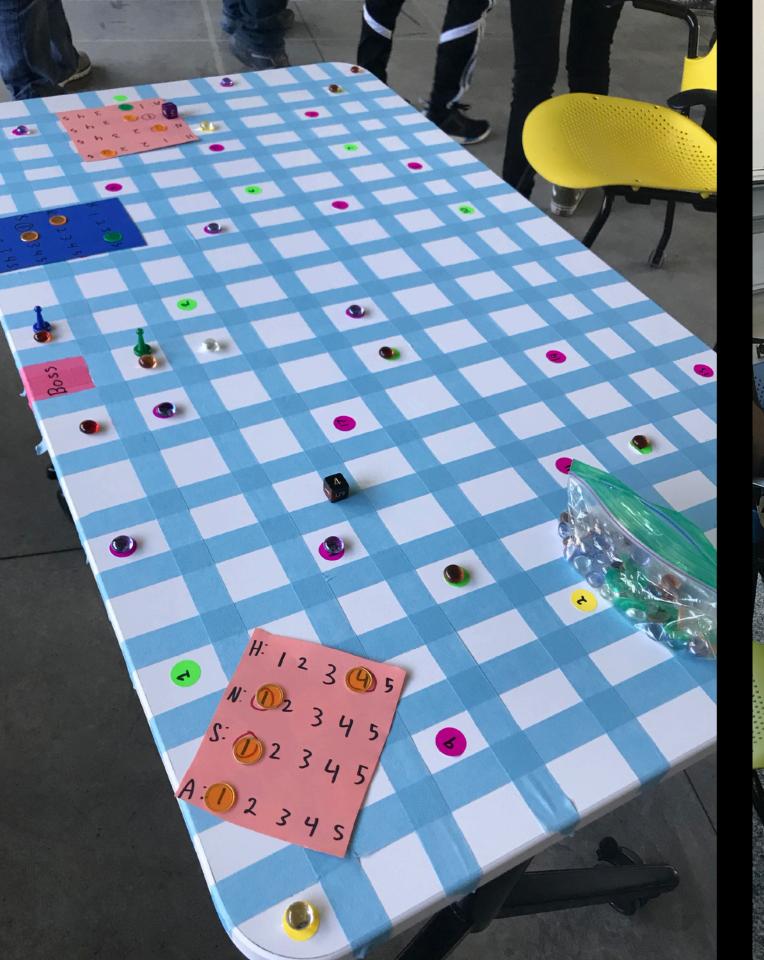
40 (nin 4 playors)

Abilities

Tolerance & Understanding: -Opens up locked space(s) Diversify: -Remove damage marker Economic Justice:

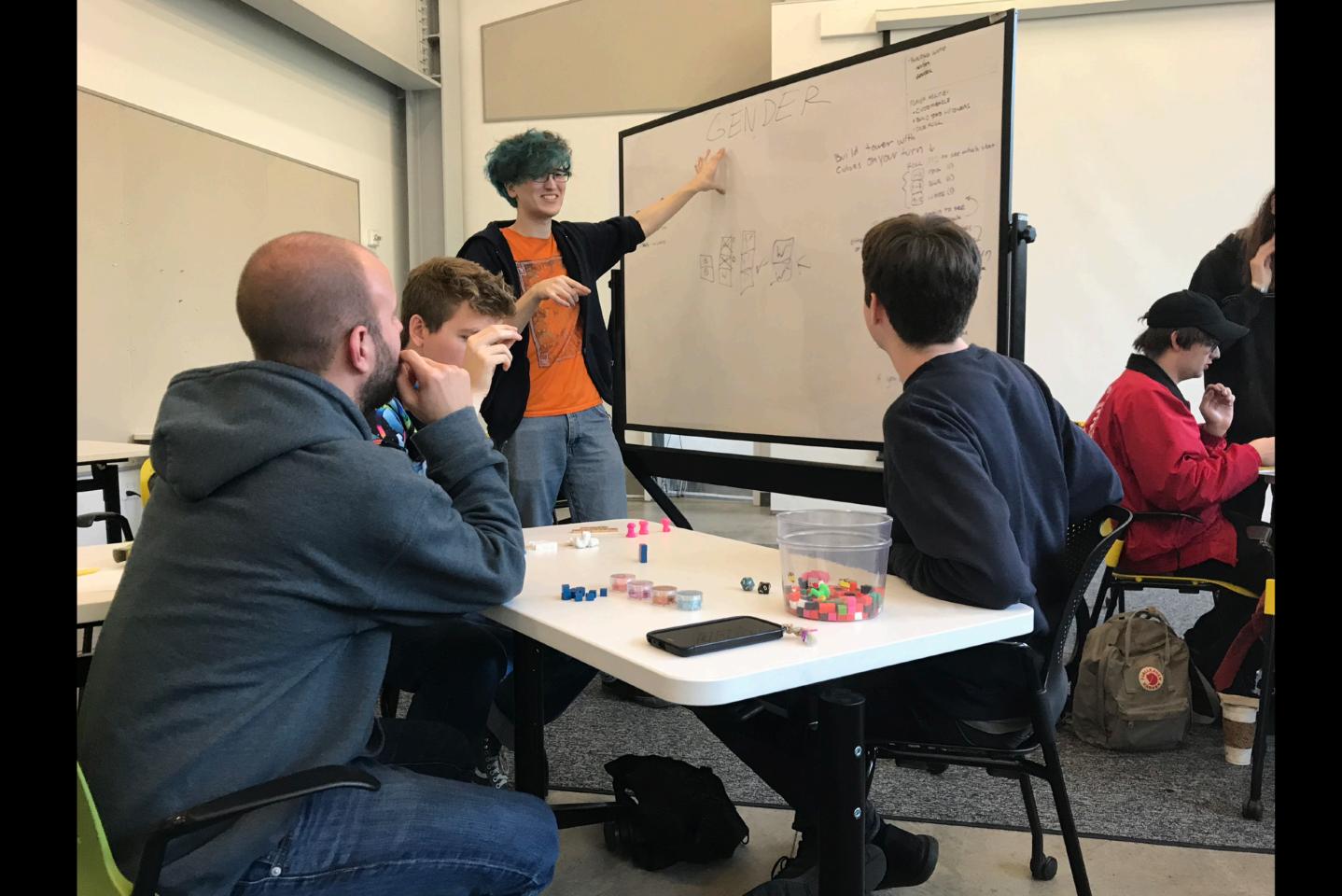
- 17-11/5 up to 10 hp Decolonize: - Dumages Minion / Boss - Minim attack - Player attack

E SHANDCENTRESH turn order - Minion movement - Playor movement -Boss attack









Present

Research

Transition

Class exercises

Future

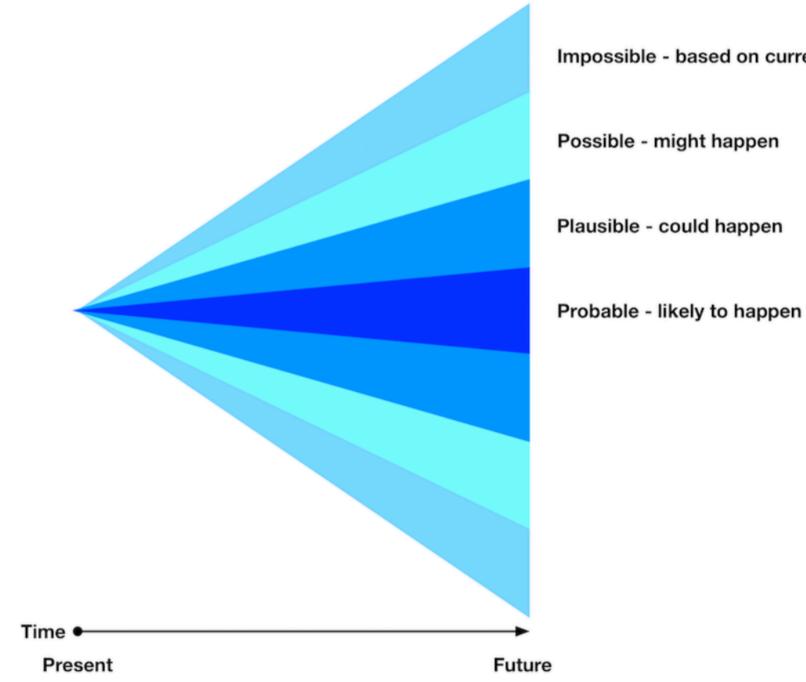
Research Prototype Production

- 1) Future creation
- 2) Group formation
- 3) Game proposal
- 4) Group charter



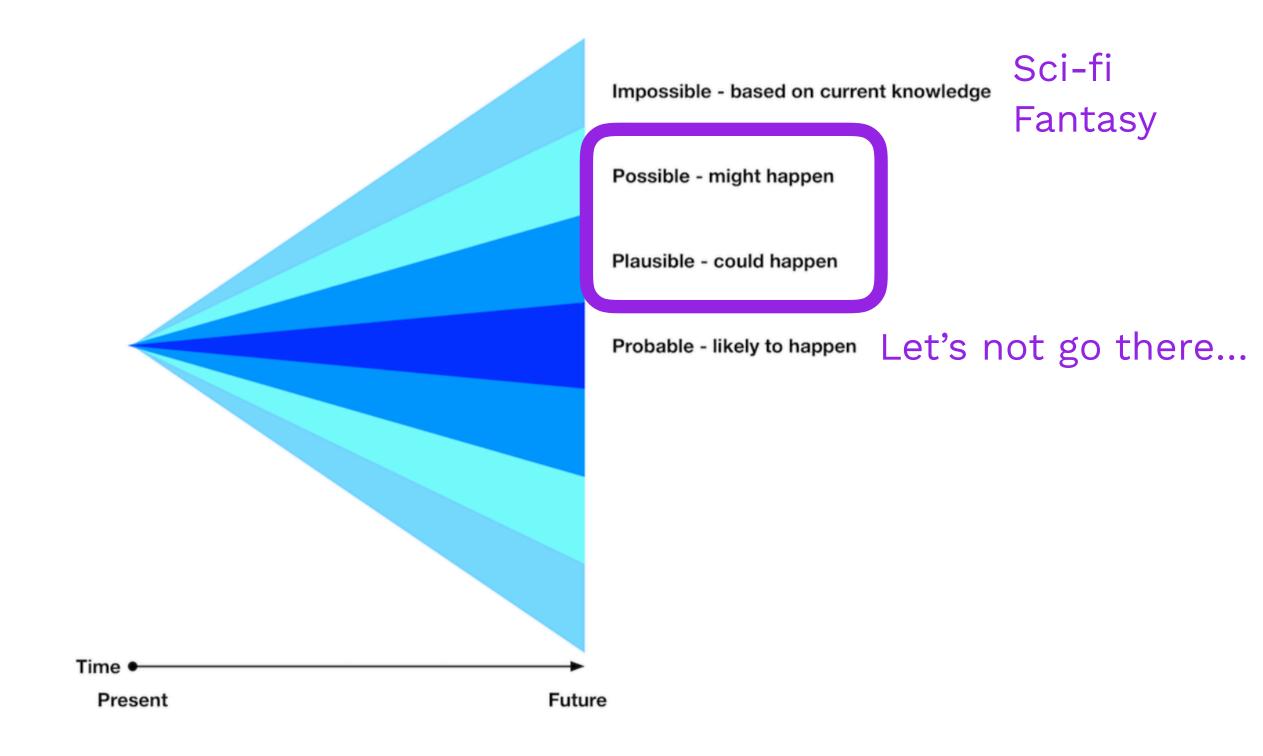
1. Your Future

- Students describe their desired future in which their chosen socio-political system(s) have been replaced or eradicated.
- They describe what Cities, Work, Relationships, Schools, Housing, Transportation, etc. would be like in this future.



Games as Speculative Design: Allowing Players to Consider Alternate Presents and Plausible Futures Paul Coulton, Dan Burnett, Adrian Gradinar

Impossible - based on current knowledge



Games as Speculative Design: Allowing Players to Consider Alternate Presents and Plausible Futures Paul Coulton, Dan Burnett, Adrian Gradinar

2. Group Formation

- We spend 2 whole class periods on this (sometimes more).
- First, we create a shared Google doc where students post research interests, game ideas, and skills they want to develop/learn.
- They design activities to learn more about each other.
- Form groups based on affinity and skillset matches.

3. Game Proposal

- Groups are formed.
- They create a shared vision of the future.
- Propose an idea for a game game, analog or digital, that belongs in this future.
- The game must, through its mechanics and audio-visual components, embody the ethos and socio-political structures of their future.

following 1 Narrative Camera (Fixed) Switching following Narrative FOOLS Still-based CLASS SYSTEM leveling ?? EQUALTY SEPERATE won unbalanced 33?? POINTS Unbabaced Scaling Onlowing level -SYSTEM CO-UPERATION FOCUSES NOW: (the opposite) ·2 players Single points One WINNER -0 everyone else loses/ limited playable ONE PERSON Everyone wins HAS ADISTINCT Characters ADUANTACE. V everyone LOSES OTHER DLAYER IS NERFED Cach plager has separate of vay toge NORK TOGETHER OR DIE

4. Group Charter

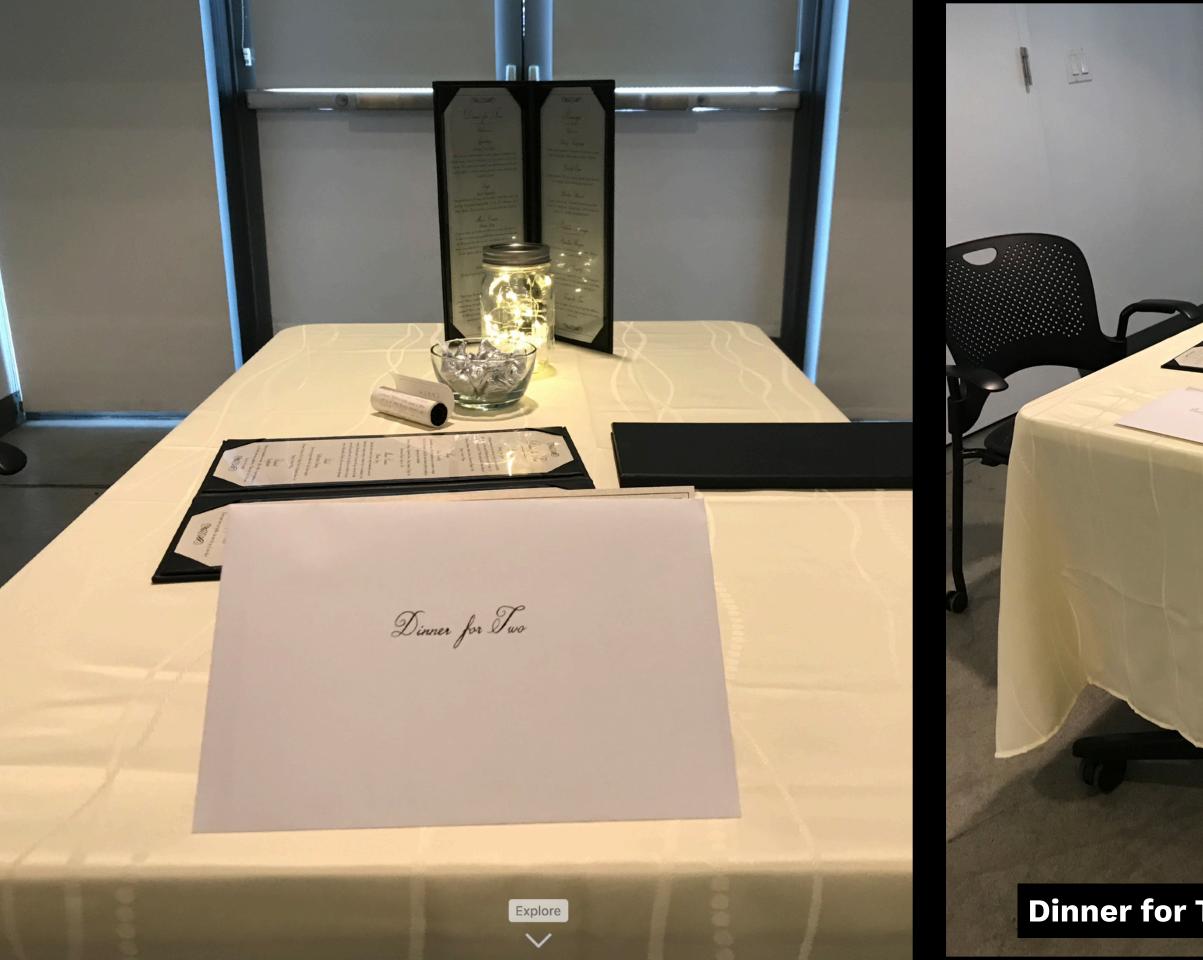
- Similar to the values exercise in class, they compile and turn in a list of group values.
- They derive from them:
 - hierarchical structure
 - decision-making methodology
 - policy for reconciling schedules and availability







5 weeks of studio time with weekly playtests later...



Dinner for Two, by Ari Liu and Athene Yip

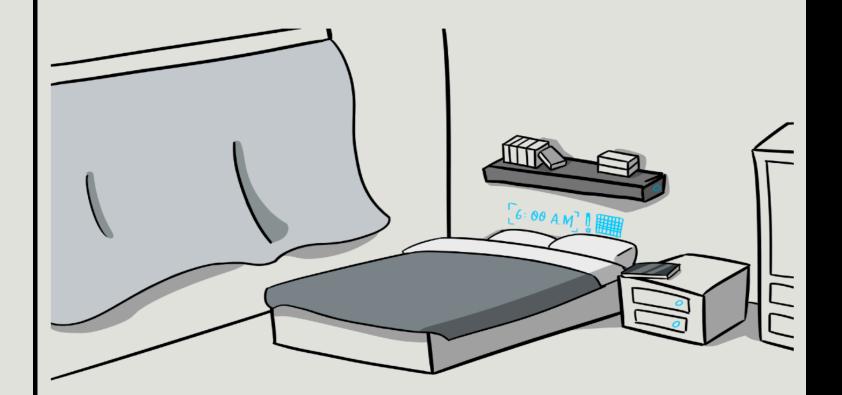


The Parade, by Reshma Zachariah

Press: Interact (E), Space

Just Another Day

Username: JADuser2 Password: •••••• Login



By Ethan Chong and Derek Jean

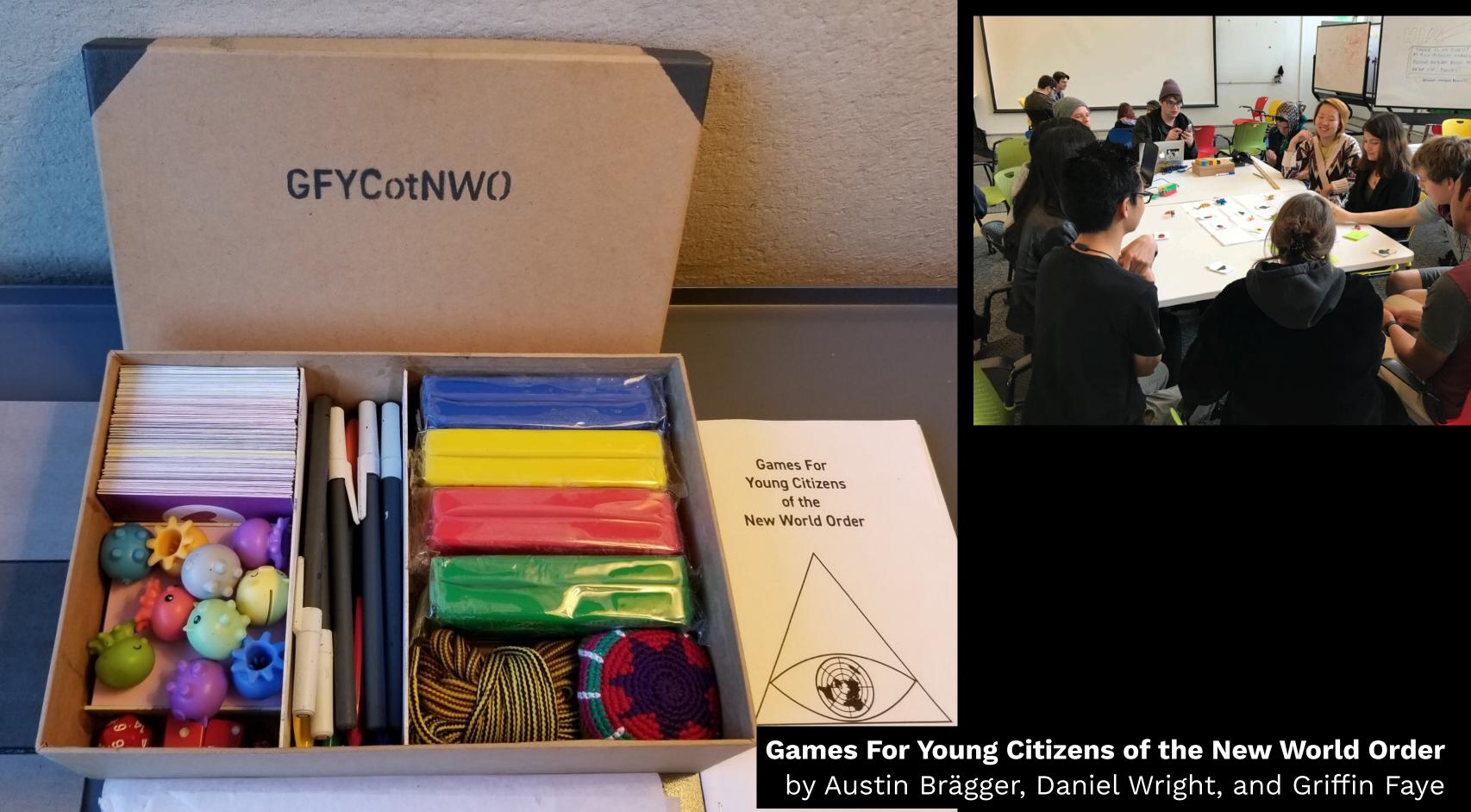
Your alarm goes off, and your eyes creak open Looking around from within your bed, you decide

get out of bed: no risk go back to sleep: medium risk You see your co-worker struggling with his work next to you. You look around, and it doesn't look like anyone will be coming up to help them. You ponder a little before you...

Due to your low mood, some of these choices now have higher risk: help them outhigh risk ask someone to help themlow risk do your own workno risk



Just Another Day by Ethan Chong and Derek Jean





Ecopolis

by Annabel Maokhamphiou, Jacob Levine, and Margaret Patrick

In-game screenshot from Ecopolis by Annabel Maokhamphiou, Jacob Levine, and Margaret Patrick





Just Be Happier.

Research interests:

Mental health stigma

Holistic treatment and management of mental illness Connection between mental health and neoliberalism

Just Be Happier.

Future outline:

Everyone gets a "mentor" throughout their life.

Jobs and school are designed to be a "community of thinkers" supported by each other.

Complete isolation is strongly discouraged.

For demanding, stressful professions, work can be done at a slower, more healthy pace.

Just Be Happier.

Social

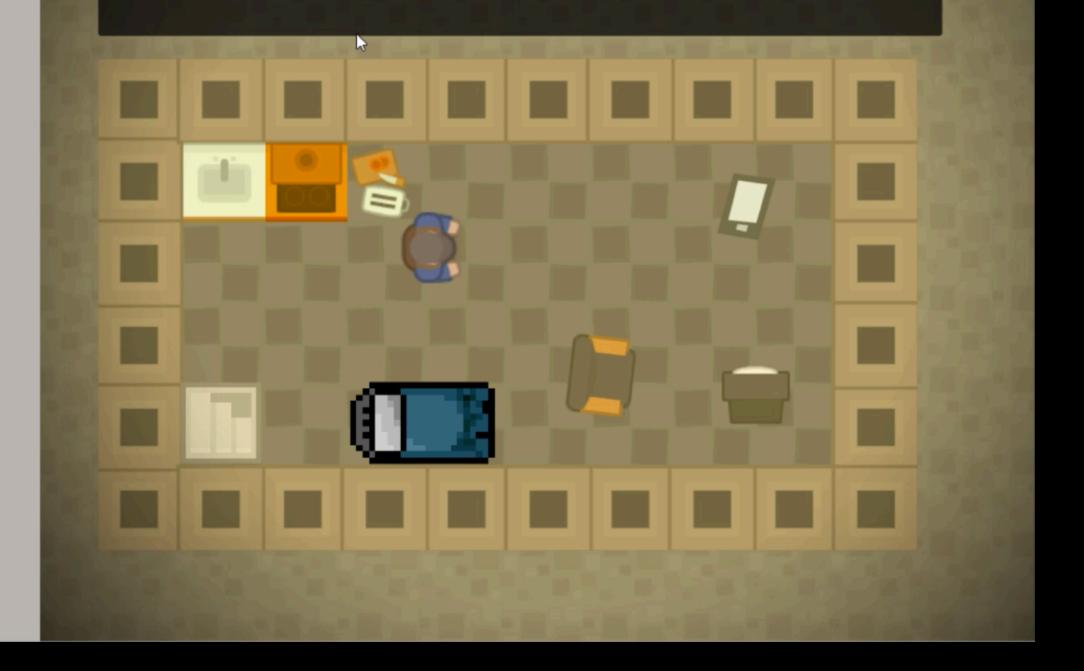
Mental Health

Sleep

Hunger

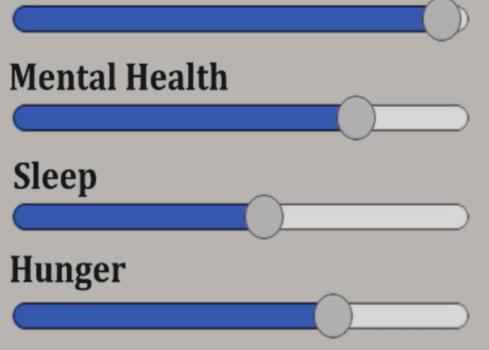
Cash: \$100

Day 0: Tuesday 05:07 PM Use the arrow keys to walk around. Right-click on orange objects. Left click to select in the right-click menu. "Call for Help" when you've survived long enough to enter LEVEL 2.



Press J to be happier.

Social



Cash: \$95

Day 1: Tuesday 04:25 AM



Press J to be happier.

Social

Mental Health

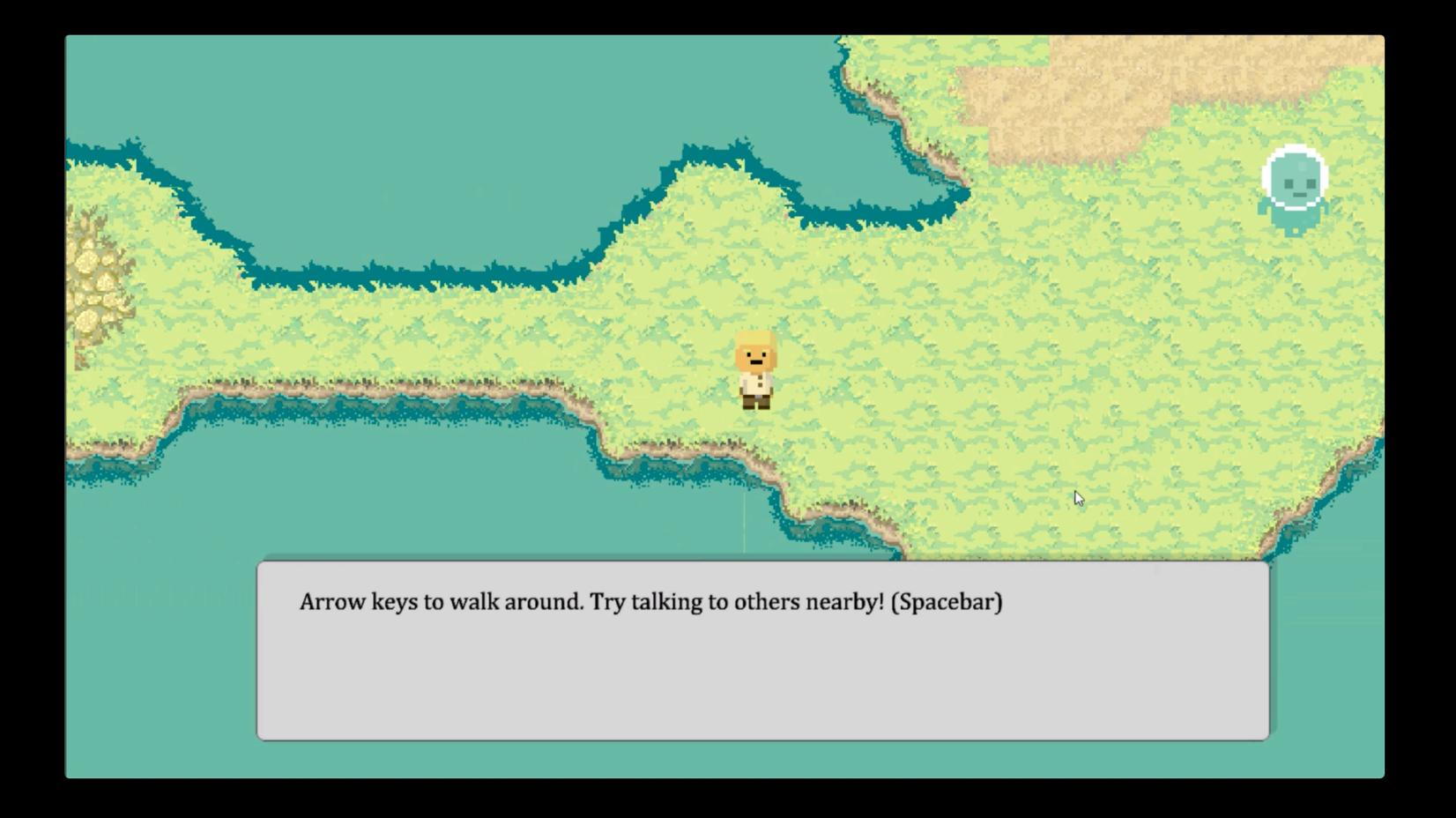
Sleep

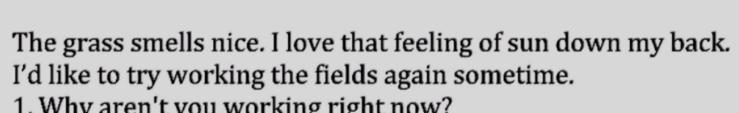
Hunger

Cash: \$-75

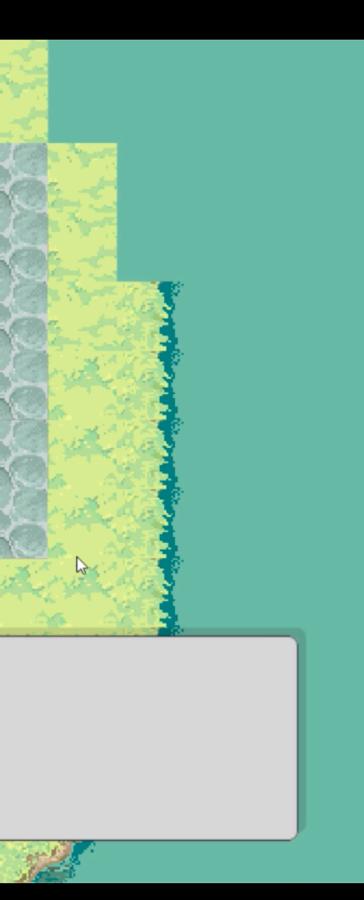
Day 4: Saturday 11:37 PM

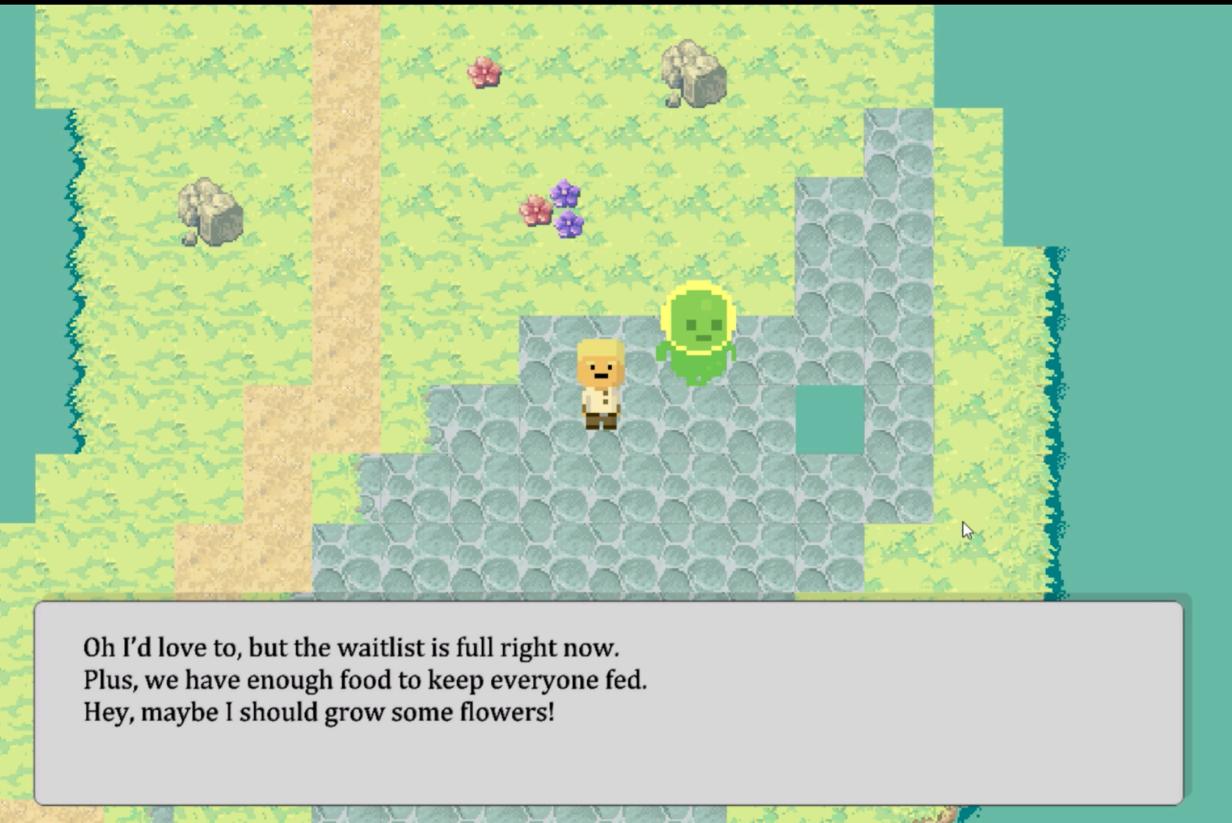






- Why aren't you working right now?
 The fields?







Neet Ne in the Gapden a puzzle game for platonic intimacy

b







Liam Dugard ODugardLiam

The Tream



Caleb Waldez

@kalbiV123

Reno Rivera

@rrehno

Yani Fauzi @fvuzi

Rodr i guez

@emilymakesgames

Meet Me in the Garden

Research interests:

Patriarchy

Queerness

Feminism

Installation Art

Intrinsic motivation and cooperation

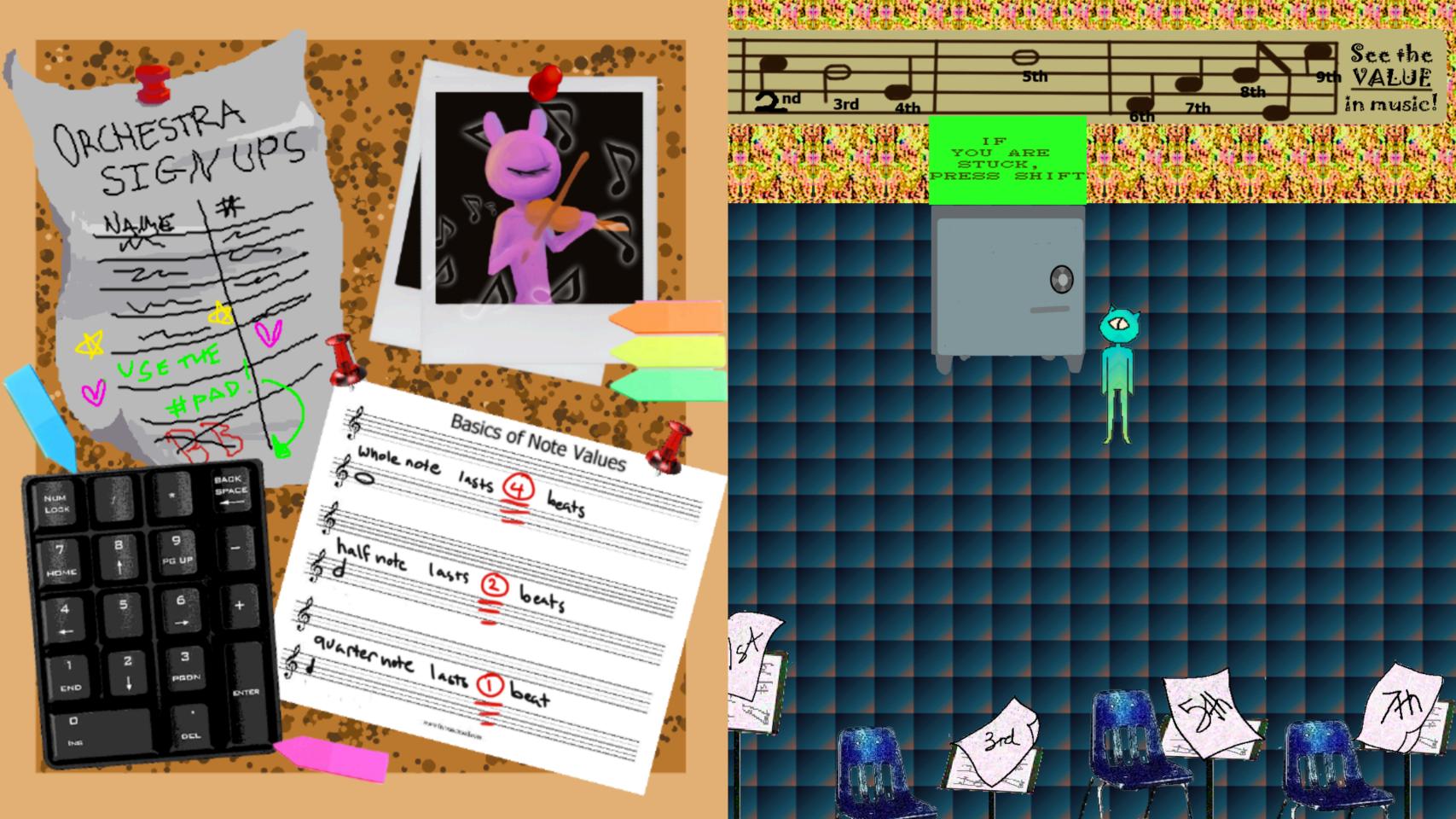
Meet Me in the Garden

Future outline:

Non-hierarchal, egalitarian society where exploitation and appropriation is replaced by collaboration and shared creation, where people express what they want to express and are unafraid to form genuine relationships.

Unequal power dynamics no longer exist.

Everyone acknowledges everyone as an equal.



And think about what, why, where, and how they are.

Past and present. Ж х.

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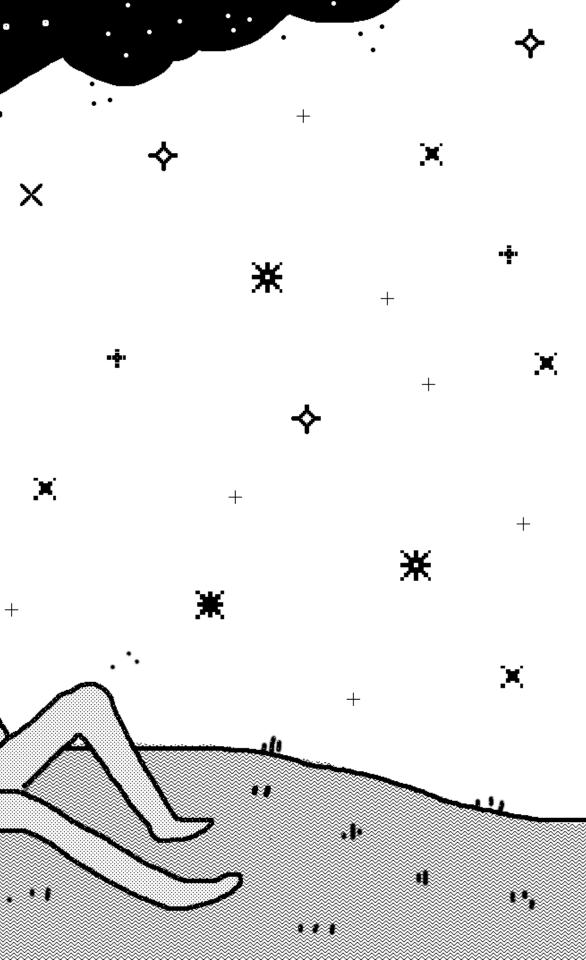
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Meet Me in the Garden Trailer

by Joyce Lin and Fen Swanson jellolin.itch.io/dinosaurily





Research interests:

Queerness

Queer game design

Gender, Feminism, Patriarchy

dinosaurily

Future outline:

Fully-automated luxury gay space communism No chrono- or gender-normativity Platonic intimacy normalized No death Freedom, choice, cuteness

The local comrades. Take care of one





dinosaurily Trailer



Advantages of starting with future-thinking:

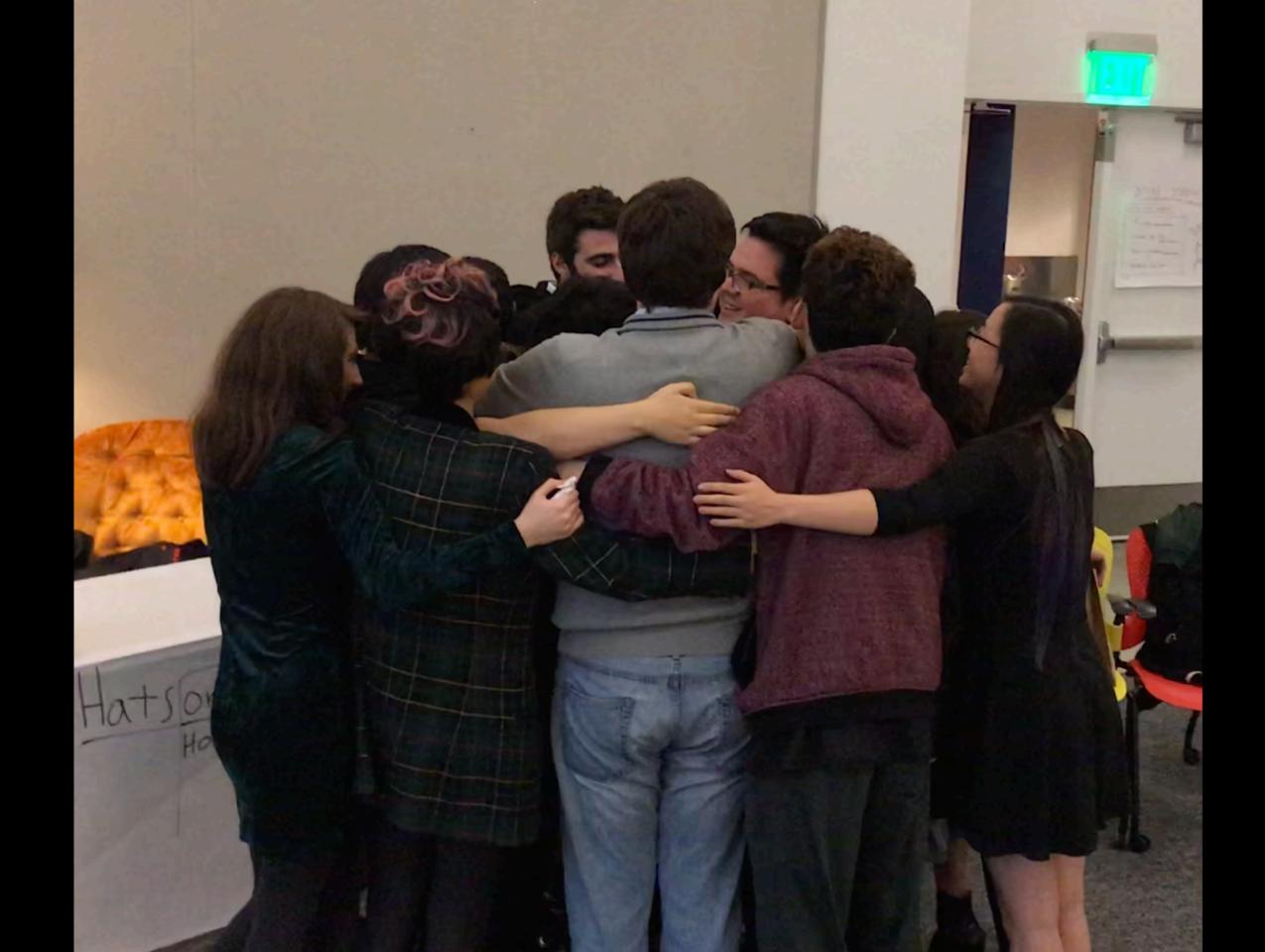
- It begins by asking students to imagine games that haven't been designed yet.
- The unfamiliar process breaks habitual design patterns opening up the possibility space for original mechanics and imagery.
- The futures provide built-in constraints to design from.
- Positions games as cultural artifacts from the onset.

Challenges:

- Individual attention and range of topics to support create a high demand on instructor time.
- Not enough time to properly cover research topics which resulted in some flawed analysis and under-developed futures.
- Unusual course structure and expectation of self-motivation and accountability made some students uneasy.
- The quarter system is... brutal, so scope of games had to be very limited with little polish time.

Successes:

- Broad range of gameplay experiences and highly imaginative artwork in a very short amount of time.
- Strong portfolio pieces for many students.
- Peer-to-peer learning was a very successful way to cover a wide variety of complex topics.
- High student self-motivation, positive classroom environment, long-lasting communities.



I asked students if they wanted to say a few words about the course.

Here are some of their words.

"Looking back on it, what we made is an incredible portfolio piece because **it puts ourselves (our opinions, thoughts and ideas) to the forefront of our work.**"

—Reshma Zachariah

- "This was a class where I felt my opinions mattered. In other classes the personal touch is more of an afterthought and the main study is focused on understanding a technology or an ideology.
- Even in most writing and art classes I've taken, the focus is more on how to most convincingly argue an idea, instead of what ideas you actually have."
- -Roy Cramer

"Encouraging us to be better to each other as if we were already living in those futures so that we create our own, better futures is 👌

I feel like that really happened. Just that idea of making different games so that we can help create better futures is an idea that's stuck with me, and it's what I want to do with my career."

—Joyce Lin

- "This class was the best part of my college career. It changed the way I think about the world and the way I interact with people everyday. This class made me a better person, artist, and friend."
- —Emily Rodriguez

"It taught me to look past the f***ing bleak circumstances that we find ourselves in, but not to ignore them.

It taught me not to imagine an idyllic utopia, but to embody a real and actionable, a weird and queer, a colorful and unexpected, a loving and vulnerable, an intersectional and multidimensional future.

It taught me that such a future is possible at all!!"

-Caleb Valdez

Closing Remarks



Speculative game design!

- We need to broaden the kinds of futures we create in our games: beyond the dystopian wastelands, genocidal hackers, and warring space empires.
- Games have an underutilized potential as a speculative medium and can/do influence the political imagination.
- We can test/play the futures we create (sort of).
- Imaginative design is very likely to emerge from this process.

Better futures are possible.

- This approach involves games and the arts in imagining alternatives to existing systems.
- Helps us move beyond resistance towards inspiring alternative visions of the future to face the difficult challenges upon us.
- Speculative future thinking is on the rise (like the oceans...).

Trust your students.

- The prevailing narratives about young people as apathetic and narcissistic are false. They think about and want to tackle big societal issues.
- They want inspiring visions of the future, made by them, for them. Create spaces where that can happen.
- Current cultural landscape lags behind their ability to change, embrace, and reconfigure identities. Embrace it!

Thank you!

Marcelo Viana Neto

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