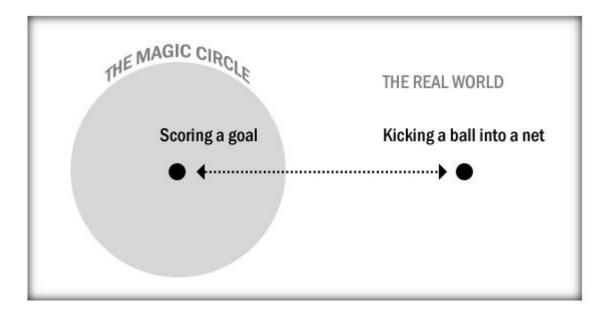
Playful Design, Programming and Art Creation in "Cargo"

Florian Mehm Florian@mehm.net AdventureX 2014

"Playful"

- Not in the sense of gamification...
- Instead: My approach to learning and producing a (hobbyist) game



"Playful"



About me

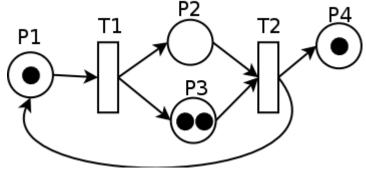
- Researcher at TU Darmstadt, Serious Games
- Lecturer for "Game Technology"
- Computer scientist by heart
 - But strong interests in many areas
 - "Online Drawing Class" (Michael Musal) since
 2011
- Favourite Game: The Longest Journey

At day

 Built an authoring tool for adventure-like games

- Follow-up research:
 - Multiplayer adventure games
 - Automatic analysis of games using colored Petri nets

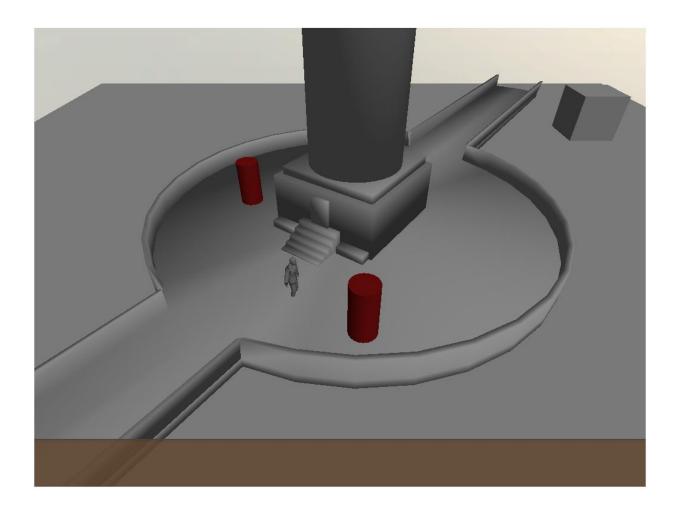




Steamquest

- Ethan Hunt finds his father on the verge of a coma in his laboratory one fateful morning
- The blame for the crime is put on him
- A mysterious source helps Ethan escape custody and aids him in uncovering the truth

Steamquest



Cargo

- The story of two young souls, a female human and an alien who meet in a cargo facility
- You play as Vala, who has the task of helping the alien return to its home from which it has been brought to Earth by accident

Inspiration

• "Blend & Paint" DVD tutorial for Blender



Cargo



Learning by doing

• Out of your comfort zone

• Many doubts turn out to be overthinking

• Other things can go horribly wrong or your estimates be way off (1 week vs. 1 year...)

Embrace Failure

• "Fail early, fail often"

• Nothing cures insecurities as well as action

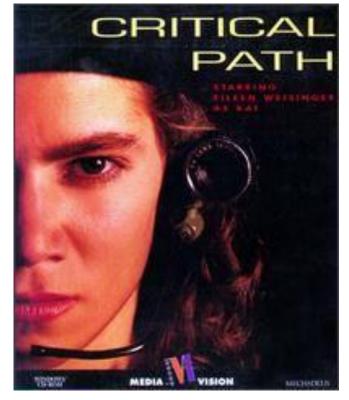
- My insight (no guarantee that it works for you)
 - Get into "doing"
 - 10 minute sprints
 - Jerry Seinfeld's Productivity Method

Critical Path

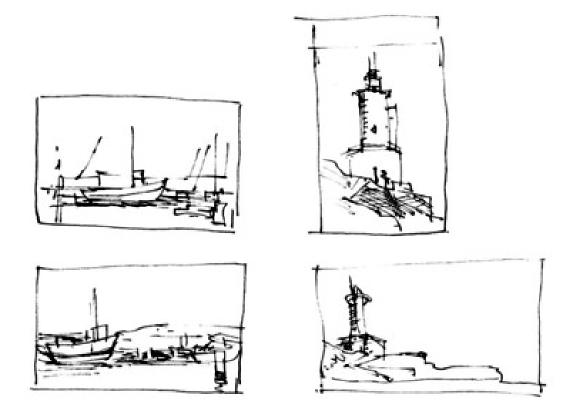
Slightly different than the project management definition (the longest path)

The minimal set of actions that will lead you to the end of the game aka "walkthrough"

Highly motivating → You will remember the first time you were able to play through the game ☺



Critical Path



Critical Path

- Make sure that the actions, animations etc. on the critical path are finished first
- By definition, everything else is an add-on
- → But of course, we need the add-ons to get a good game

 More motivating to have something finished and go back and refine what you have

Exploring your world

- Narrative
 - What happened before, what will happen after?
 - What is the political situation in the narrative?
 - How far is technology in your world?
- Character properties
 - Why does the main character do what he/she is doing?
 - How would the antagonist react to being imprisoned/laughed about/sent to Mars/...?

Media shift

- "Writing prompts"/Short stories
 - Write down a part of the story as if it was a novel.
 Describe what is happening
 - Like before,
- Comics
 - Draw out a part of the story as a comic
- Improv
 - Ask someone to play your characters for you
 - Haven't tried this one, but it sounds awesome 🙂

Media Shift Example: SteamQuest

- Development stalled
 - Writing an own engine
 - Story still unclear → hard to work top-down as a beginner

Objective Story	Subjective Story	Main Char	Impact Char
Throughline	Throughline	Throughline	Throughline
Aus dem Labor des Erfinders wird die Formel geklaut	Der Täter versucht den Protagonisten von sich abzulenken	Der Erfinder bittet den Protagonisten den Raub aufzuklären und die Formel zu beschaffen	Antagonist klaut die Formel

NaNoWriMo

- Write a 50.000 word novel In November...
- Finished NaNoWriMo with Steamquest in 2014
- Advantages
 - Cut out the "inner editor"
 - Get something finished maybe a nice Kickstarter incentive? ;-)
 - Meet new, creative people in your area
- Disadvantages
 - Little sleep, others might suspect you are crazy...

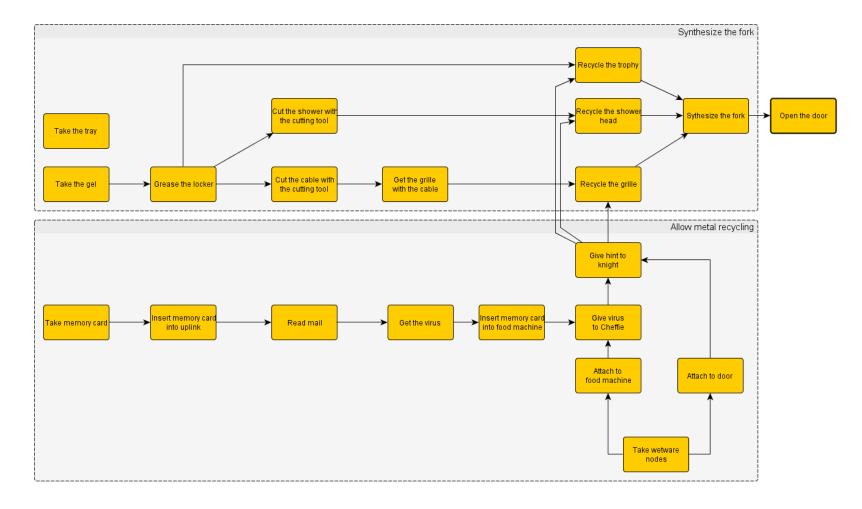




Design

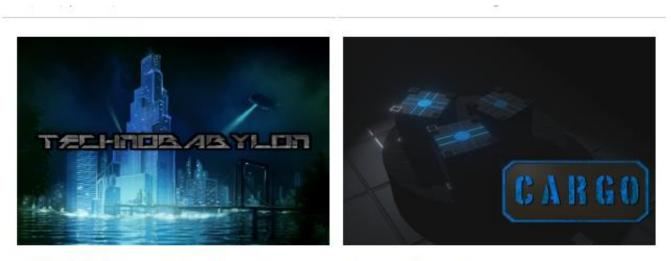
- Play games to learn about games
 - What are great puzzles, what goes into them?
 - Interesting effects
 - Emotional reactions
- Analyzing Games
 - Make the structure apparent to you again
 - Learn to "read" the game
 - (Analogy in music: Learn to hear chords and melodies to learn how to play them)

Analyzing Games: Example "TechnoBabylon"



Sidenotes

 Used tool: yEd Graph Editor (<u>http://www.yworks.com/en/products/yfiles/y</u> ed/)



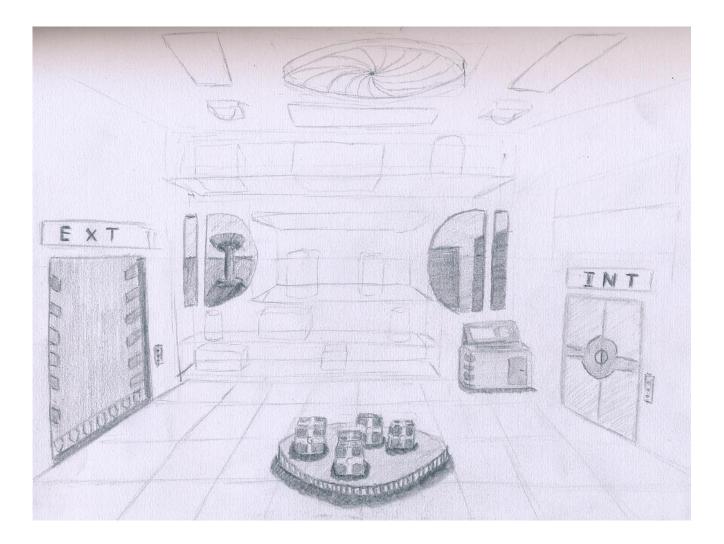
Technobabyion [Technocrat Games] PC, MAC, 2D, point & click, sci-fi

Cargo [Florian Mehm] PC, 2D, point & click, sci-fi

Design Iteratively, Try your game

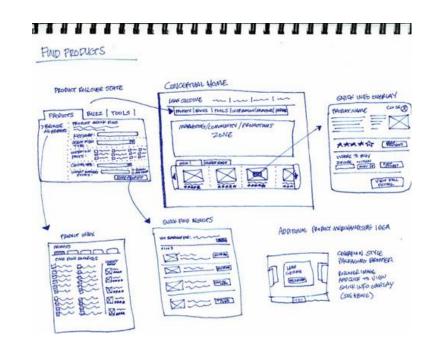
- Quick production
 - Take shortcuts
 - Build the critical path first
- Playtests
 - From early stages on
 - Even for a hobbyist game
 - The first playtester will –within seconds- find an item combination you would not dream about

Sketches



Prototyping vs. Producing

- Be aware of the cost of produced content and the rigidity that comes with production → harder to change the result
- But: All content should be on a comparable level



Producing the final game

 Placeholders can provide you with good approximations

• But be aware of shortcuts!









Remain agile - Writing

- Linear tool (word processor) not well suited to games
- Scrivener

 (<u>http://www.literatureandlatte.com/scrivener.</u>
 <u>php</u>)
- yWriter

(<u>http://www.spacejock.com/yWriter5.html</u>) more for novel writing (→NaNoWriMo)

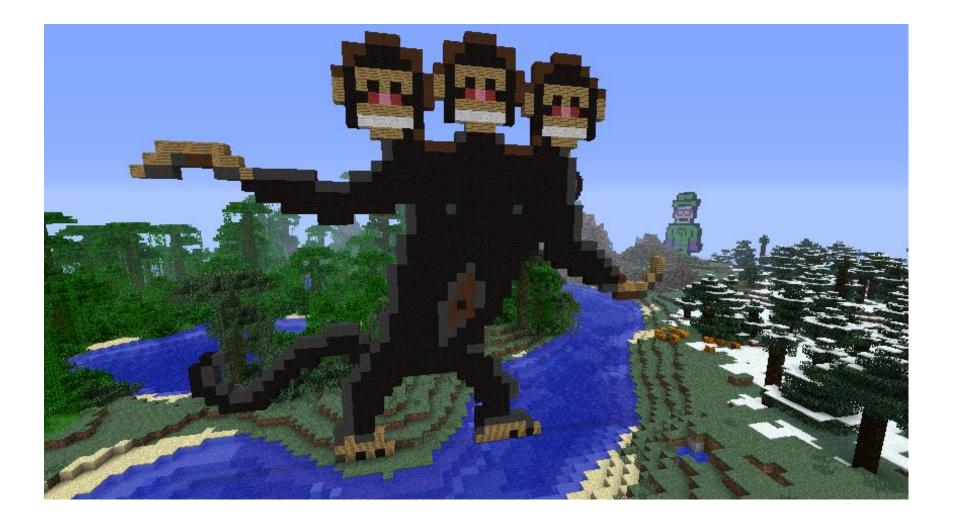
Screenshot Scrivener

📓 Scrivener - Cargo						a X
Datei Bearbeiten Anzeig	en Projekt Dokumente Formatieren	Werkzeuge Fenster Hilfe				
	S 🖬 💽 🚈				▶ Alle (Exakter Begriff)	×
Mappe	¶a ▼ Courier New	▼ Standard ▼ 12 ▼ 1.0x ▼	B I <u>U</u> ≡ ≡ ≡ ≡ <u>A</u> ∠			
 Manuskript Introduction 	Script				<u>↑</u> (
Introduction Image: A limit of the alien					U \	
Script	Location: Cargo	2702				<u> </u>
Communication	Location. Carge	area				
Script	We see a bunch	of crates sitting on t	the freight elevator in	the middle of the roo	m.	
4 🧾 Finding way back		01 014000 01001ng 0n				
Script	Vala enters fro	m the <u>entrance area</u> .				E
⊿ 📙 Middle						
Nourish the alien	Vala: "There's the cargo from the last expedition."					
Open the door	Vala: "Pieces of rock from the far reaches of space."					
Overcome security Ind	Vala: "*Sigh* Let's hope I get there as well when I finally manage to earn enough credits here to					
Entering the ship	enroll in the academy." <u>Vala</u> : "But first I have to move these crates to the cargo hold."					
Hiding the alien	Vala: "But firs	t I have to move these	e crates to the cargo ho	ld."		
▲ III The departure	Wala takes the	remote control from a	noorby toblo			
Script	Vala takes the	remote control from a	nearby cable.			
The landing platform	Vala: "Here we	Vala: "Here we go."				
💶 Inspiration						
4 🗒 Cargo area						•
Crates	135% 🗘		Wörter: 160 Zeichen: 897			0
Repair station	🔺 🕨 🗒 John				合 (] 🗆 🗖
Crew area	His name is Joł	n Bridger. He is 35 ye	ears old.			•
Upper Deck						
Recherche	He spends his t	ime during the game in	n the <u>crew area</u> .			
The alien entity						
Vala	_	ember of some kind of	military? A scientist?	Or "just" in charge a	t the landing	
The ship	platform?					E
4 🧾 The planet	He had been we	king at the landing of	latform for longer than	hor up is in sharse	of the chift	
The directive	He has been wor	king at the fanding p.	factorin for fonger chan	ner. He is in charge	or the shirt.	
The container	He has access t	o the ship during the	lockdown.			
The guard			aranazan.			
Security system	He is simultane	ously opposed to her	(doesn't understand her	ambition to go to the	academy) but als	0
John		he will still be ther				-
🕆 🛐 🕐	135% 🜲		Wörter: 97 Zeichen: 515			۲

Remain agile - Tools

- "Don't put all your eggs in one basket"
- Examples
 - Vector art can be changed, rendered for new resolutions
 - 3D models can be used for promotional materials, higher-resolution versions or 3D versions of the game
 - Photoshop Adjustment Layers and Layer Effects

In-game editing



In-game editing

- Change simple properties while playing the game
- Current state: After each "unhandled" action, can bring up a GUI with simple options (character says, show text, …)
- Start playing very early, enter descriptions etc. as you go

Screenshot In-Game Editing

Last Action: Last Target:						
Say	Display	Save				
Say: I'm at an Adventure Game X conference!						
Text Box Contents Add						

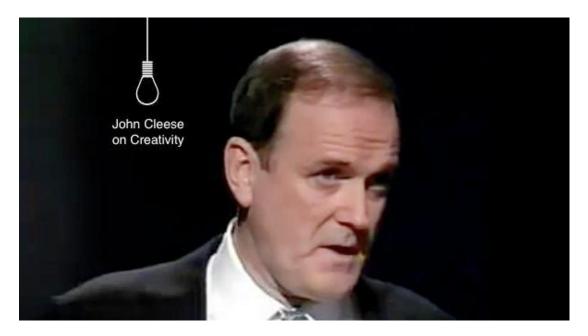
Elegy for Dead World



http://www.dejobaan.com/elegy/

John Cleese on Creativity

- Talk for Video Arts (founded by Cleese in 1972)
- https://vimeo.com/89936101



Open vs. Closed Mode

"We all operate in two contrasting modes, which might be called open and closed.

The open mode is more relaxed, more receptive, more exploratory, more democratic, more playful and more humorous.

The closed mode is the tighter, more rigid, more hierarchical, more tunnel-visioned.

(...) we must return to the open mode, because in that mode we are the most aware, most receptive, most creative, and therefore at our most intelligent." – John Cleese

Learning vs. Producing

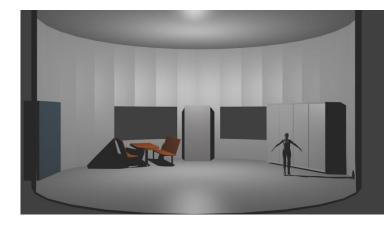
- Learn something new
- Takes longer
- More risk
- Acquire a new skill
- Find out what works and what does not

- Build something with the skills you have
- Faster
- Inside your comfort zone
- Can aid you on your way to "mastery"

Examples for workflow

- Switch between tools and approaches
 - Initially: Afraid of inventing the perspective
 - Rendered the first versions of the screens in Blender
 - Finding visual ideas with sketches
 - Sketched over the rendered screens
 - Combination of paint and rendering
 - Due to the technical/sci-fi look of Cargo
 - Comics for intro and extro (in progress ;-)
 - "Cross-Pollination" → Increased understanding in one domain based on the other domain

Process









Animation



Thank you for your attention!

• Find me outside in the exhibition area!

- More info on Cargo: <u>cargo.mehm.net</u>
- My blog: <u>www.mehm.net</u>
- Contact me at <u>florian@mehm.net</u>