

Adventures in Text

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Creative Director, inkle

GAME DEVELOPERS CONFERENCE®

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Frankenstein, Dave Morris



Down Among the Dead Men, Dave Morris



Sorcery,
Steve Jackson



Cainsville Files, Kelley Armstrong



Sorcery 2, Steve Jackson



80 Days, Meg Jayanth



Text is...

- Accessible
- Versatile
- Easy to scale
- Characterful



"Reverse primary thrust, Marvin, that's what they say to me.", "Open airlock number three, Marvin.", "Marvin, can you pick up that piece of paper?" Here I am, brain the size of a planet, and they ask me if I can pick up a piece of paper.

Of course, I'm quite used to being humiliated.

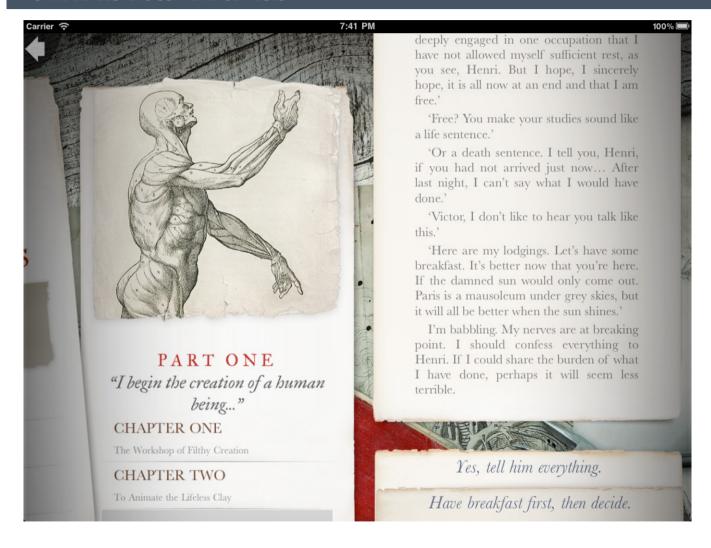
I can even go and stick my head in a
bucket of water if you'd like. I mean, if
that's what you really want.

Would you like me to stick my head in a bucket of water? I've got one ready. Hold on a minute."



-The Hitch-hiker's Guide to the Galaxy, Douglas Adams





Frankenstein, Dave Morris (2012)

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...none of you read it

- More text ⇒ less reading
- Luckily, though, everyone reads choices

Choices

COM MO

I walk about the island, a restless spectre. At noon, with the sun beating down strongly despite the chill wind off the sea, I am abruptly overcome by fatigue. Stretching out on the grass, I soon fall into a deep sleep, which restores me, and on awakening towards sunset I feel again as if I belong to a race of human beings like myself.

Now I am able to reflect with greater composure on what has passed, but still the fiend's words ring in my ears like a death-knell. I will be with you on your wedding night. Already it is a phrase that has taken on the character of a pronouncement in one of Perrault's fairy tales, doomy and yet dreamlike, with a dream's ability to be both more and less tangible than life.

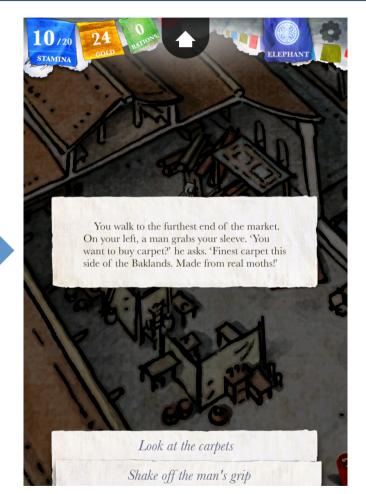
A fishing boat arrives with a packet of letters for me. There is one from Elizabeth and one from Henri.

Read Elizabeth's.

Read Henri's.

They will keep. You have things to do first.





Sorcery!

Choices provide pacing



Front of House, lying down

Score: 10 Moves: 43

>get up

The bulldozer driver gives a quick chew of his gum and slams in the clutch. The bulldozer piles into the side of your home.

Your home collapses in a cloud of dust, and a stray flying brick hits you squarely on the back of the head. You try to think of some suitable last words, but what with the confusion of the moment and the spinning of your head, you are unable to compose anything pithy and expire in silence.

>s

You keep out of this, you're dead. An ambulance arrives.

>don't panic

You keep out of this, you're dead and should be concentrating on developing a good firm rigor mortis. You are put in the ambulance, which drives away.

>pray

For a dead person you are talking too much. As the ambulance reaches the mortuary a fleet of Vogon Constructor ships unexpectedly arrives and demolishes the Earth to make way for a new hyperspace bypass.

We are about to give you your score. Put on your peril-sensitive sunglasses now. (Hit RETURN or ENTER when ready.) >_ The Hitch-Hiker's Guide to the Galaxy, Douglas Adams and Steve Meretzky





Choices can escalate







Choices can escalate







You follow a group of youngsters with packs up the road. Homes — hovels — line the track and strange faces appear at the windows, watching you as you pass. Then from around the bend ahead, a troop of guards appears!

You stride quickly forward, to join the group of youngsters, and attempt to mimic their way of walking. The group are talking about where they will stay — The Wayfarer's Rest? or The Meat and Cleaver?

'The Wayfarer's Rest is a much more comfortable place,' you begin.

The youngsters stop almost instantly, and turn with a look of surprise. 'Who are you?' one demands, at the top of his squeaky little voice. 'Where did you come from?'

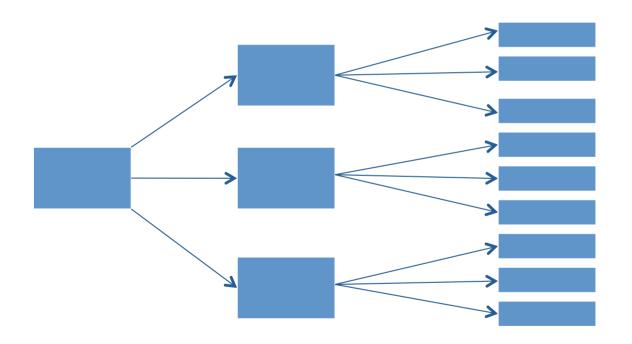
He has attracted the patrol's attention.

'Oi, you!' One the guards grabs you by the arm. 'You look new here. Are you new?'

'Yes.'

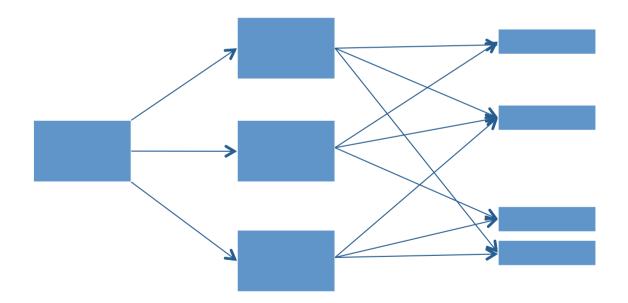
'No. '

Escalating choices provide agency



Player's view

Escalating choices provide sufficient agency



Author's view

Scale

- Sorcery!
 - 3,442 sections
 - 2,618 choices
- Sorcery! 2
 - 11,523 sections
 - 8,969 choices

Authoring format

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{ Why collect heads }

* What are we looking for? -> Sorting_heads

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```
A_2
>>> setSlideshowImage: image=chapter2_impressive-building.png
[To Animate the Lifeless Clay]
An impressive building, isn't it? It used to be a gymnasium and tennis court. Aristocratic young men would learn to strike elegant poses with a racquet while
    never seeming to do anything so vulgar as trying to win. They also practised skewering each other with swords. Quite often the blossoms would come off the
    foil, and then they'd be brought in for us to operate on. I'm quite serious. I got the liver and kidneys of my creature from one aristocrat whose
    opponent's blade drove a little too deep.
Since the revolution the building has stood empty, apart from occasional use as an assembly hall. Well, not quite empty. You'll see, Ah, I can hear the night
    watchman coming. Where's my purse?
'Good evening, citizen. I found this bag of coins in the street and thought it might belong to you.'
'Bless you, citizen. I was wondering where I'd dropped that. Perhaps you'd like to come inside.'
* What are we here for? -> Why collect heads
* Lead the way. -> Pile of heads
Why collect heads
I need the small cartilages of a human voice box - a very intricate structure, much too time-consuming for me to build by hand. If I can find one fresh
    enough, chemicals can be used to stimulate its growth to suit the creature's scale. Or perhaps I'll use it to make moulds in which I can nurture bone
    cultures. There are a thousand excruciating details like this [Pale_cheek: - little wonder you think my nerves are shot].
* Why would you look for such a thing here? -> Pile of heads
Pile of heads
{Why_collect_heads:Come and see. }That sweaty stink - doesn't that bring back memories of school, eh? In the salons men hide their animal excretions with
    scent and powder, but venture into zoo or gymnasium alike and you can't avoid the sharp odours of unadorned nature. And there's another odour here - can
    you smell it, that butcher's shop stink? {Why collect heads:That's the answer to your question, }See over there, against the far wall? Those aren't
    exercise balls. You'll be able to see better when the watchman brings another candle. Look - baskets full of human heads, fresh as pork loins. Today's
    crop from the quillotine. The bodies are carted off to the lime pits in the Madeleine Cemetery, but the heads are brought here where families can identify
    their loved ones and take this much of them away for burial. Here, catch!
* Have some respect for the dead. -> Poor dead heads
* Won't the blade have destroyed the larvnx? -> Search for heads
{ Why collect heads }
* Let's get what you need and be on our way. -> Sorting heads
Poor dead heads
~ victor_empathy = victor_empathy - 1
I respect the living. The dead are gone, they're not here. These craniums don't hold a lifetime's memories, just a few pounds of rubbery grey jelly.
* What about their families? -> Got to take a head
* Are you looking for a brain, or a voice box? -> Search for heads
```

Basic ink

DmWFH.OAU.ZGKF]

You turn and run. -> par30

- runforit



```
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par300
- rest
 You settle down on the rocks to {night_time:sleep|regain something strength}. But before you manage to make yourself comfortable, you are disturbed by a deep rumble somewhere in
   the earth below.
 * Get up, quickly --> getup
 * Ignore it --> ignoreit

    ignoreit

 You ignore it; it is probably nothing. The next rock that launches is directly /beneath/ you.
 -> dead-->shotrock
aetup
 You stand to leave, and your foot dislodges a chunk of rock, which rolls away towards the fissure. But then abruptly it stops, reverses direction, and begins to roll towards you!
 * Dodge left
                     --> dodgeleft
 * Dodge right
                     --> dodgeright
 * Stay still
                     --> stayput

    dodgeleft

 You dodge left,--> safe

    safe

 and the rock shoots past you, impacting into dust against an overhang.
 --> next
- stayput
 You stay put, --> safe

    dodgeright

 You dodge right, straight into the path of the reversing rock. It hits you painfully in the ankle.
 ~ harm(1)
 --> next
- next
 The rumbling is growing louder. An even bigger explosion is coming...
 * Run for it! --> runforit
 § Magic: fail -> par300_fail, spells: ( DOZ -> par300_DOZ , MAG -> par300_MAG , WOK -> par300_WOK , FOG -> par300_FOG , HUF -> par300_HUF , FOF -> par300_FOF ), letters: [
```

"Microchunked"

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```
par300
- rest
 You settle down on the rocks to {night_time:sleep|regain something strength}. But before you manage to make yourself comfortable, you are disturbed by a deep rumble somewhere in
    the earth below.
  * Get up, quickly --> getup
  * Ignore it --> ignoreit

    ignoreit

  You ignore it; it is probably nothing. A moment later, a rock shoots up from the ground, a few feet from where you are sitting. It smashes itself to dust when it lands, on the
   other side of you.
-*-Get up ----> getuppostblow
 -*-Stay sitting ---> sitting
- sittina
The next rock that launches is directly /beneath/ you.
  -> dead-->shotrock
- getuppostblow
 -You get to your feet, not a moment too soon, as a rock explodes out of the ground, just a few spans from where you {par300 lookingforserpent:stand|are sitting}!
 It begins to roll down the slope towards the fissure, but --> halfwaydown
- getup
  You stand to leave, and your foot dislodges a chunk of rock, which rolls away towards the fissure. But --> halfwaydown
- halfwavdown
then abruptly it stops, reverses direction, and begins to roll towards you!
  * Dodge left
                     --> dodgeleft
  * Dodge right
                      --> dodgeright
  * Stay still
                      --> stayput
- dodgeleft
 You dodge left,--> safe
safe
  and the rock shoots past you, impacting into dust against an overhang.

    stayput

 You stay put, --> safe

    dodaeriaht

 You dodge right, straight into the path of the reversing rock. It hits you painfully in the ankle.
 ~ harm(1)
  --> next
next
 The rumbling is growing louder. An even bigger explosion is coming...
  * Run for it! --> runforit
  § Magic: fail -> par300_fail, spells: ( DOZ -> par300_DOZ , MAG -> par300_MAG , WOK -> par300_WOK , FOG -> par300_FOG , HUF -> par300_HUF , FOF -> par300_FOF ), letters: [
   DmWFH.OAU.ZGKF 1
- runforit
                                                                                                                                            Reflowing
 You turn and run.
  -> par30
```

```
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    GAME DEVELOPERS CONFERENCE® 2015
par300
rest
 You settle down on the rocks to {night time:sleep|regain something strength}. But before you manage to make yourself comfortable, you are disturbed by a deep rumble somewhere in
   the earth below.
 * Get up, quickly --> getup
 * Ignore it --> ignoreit

    ianoreit

 You ignore it: it is probably nothing. A moment later, a rock shoots up from the ground, a few feet from where you are sitting. It smashes itself to dust when it lands, on the
   other side of you.
 * Get up
                --> getuppostblow
 * Stay sitting --> sitting
- sitting
 The next rock that launches is directly /beneath/ you.
 -> dead-->shotrock
- getuppostblow
 You get to your feet, not a moment too soon, as a rock explodes out of the ground, just a few spans from where you {par300_lookingforserpent:stand|are sitting}!
 It begins to roll down the slope towards the fissure, but --> halfwaydown
- aetup
 You stand to leave, and your foot dislodges a chunk of rock, which rolls away towards the fissure. But --> halfwaydown
- halfwaydown
 then abruptly it stops, reverses direction, and begins to roll towards you!
 * Dodge left
                     --> dodgeleft
 * Dodge right
                     --> dodgeright
 * Stav still
                     --> stavput

    dodgeleft

 You dodge left,--> safe
 and the rock shoots past you, impacting into dust against an overhang.
 --> next
- stayput
 You stay put, --> safe

    dodgeright

 You dodge right, straight into the path of the reversing rock. It hits you painfully in the ankle.
 ~ harm(1)
 --> next
 The rumbling is growing louden {-->ignoreit:, and this time you cannot ignore it}. An even bigger explosion is coming...
 * Run for it! --> runforit
 § Magic: fail -> par300 fail, spells: ( DOZ -> par300 DOZ , MAG -> par300 MAG , WOK -> par300 WOK , FOG -> par300 FOG , HUF -> par300 HUF , FOF -> par300 FOF ), letters: [
   DrWFH, OAU, ZGKF ]
- runforit
```

You turn and run.

-> par30

Callbacks

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weave:neworleans

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```
- I met Death in a smoke-wreathed red-lit bar in New Orleans, as the jazz band struck up another tune. He offered to buy me a bourbon.
   *"Holy mother of Heaven[."]," I blasphemed succinctly, -->
   *"Perhaps in twenty or thirty years?"[] I replied archly, -->
   *(wet)I threw my drink in his face[] in an automatic desture of defence. -->
- as some of the other patrons snickered.
Death pulled off his mask to reveal handsome café-au-lait features and dark green eyes, and then extended a {-->wet:dripping} skeletal hand to me.
   *"A fine costume[."]." I remarked.
   "/Merci, mon cher/, -->
   *"You gave me a fright[."]," I admitted.
   //Since Death is speaking French, it seems odd to write PP's dialogue in English and then say it's French. Also, D's next statement is half and half, which again is illogical.
   Better to avoid specifying.
   "My deepest apologies, /mon cher/, -->
- I am Death at our neighbourhood Mardi Gras, and I am practising my role." He took my proffered hand and brought the back of it to his lips for a gallant kiss; he flicked me a rather
   unmistakable look under his dark lashes.
   * I returned his look[] with one of my own, and he let my fingers slip slowly through his. {raise(style)} -->
   * I pretended not to see [it] his look, or the sensuous tilt to his mouth, and he laughed. -->
   * To be so clearly desired by Death was unnerving[]. I found my feet feet, shaking, and stepped back.
       He tilted his face to the side. "Do you find my colour displeasing?" he asked, with a lazy smile.
               "Not that."
               He laughed, low and pleasing. "It matters little, /mon cher/. There are many white men in New Orleans who do. In spite of it, I am a free man."
                   Death resumed his mask.
                   I do not believe in prophecy, but the -->
               "My master will be missing me."
               "You have a master?" he replied, with an amused curl to his lips. "So you are a slave, then?"
               *** "A valet."
               * * * {up(tension)} "After a fashion."
               * * * {not up(tension)} "More of a companion."
               --- "You, /mon cher/, know little of slavery," Death replied tersely, resuming his mask.
       - - chill of his cold fingers on my face sent a thrill of fear through me. Abandoning dignity. I ran from the bar, nerves rattling like knuckle-bones in a cup.
            -> DONE
- "You must call me Octave, /mon cher/."
   *"I am Passepartout[."]." I dipped my head slightly. "An appellation, as well as a burden."
   *"I hate my first name[."]," I admitted, with a half-smile.
- "Then I will choose another for you!" he decided, with a slanted grin. "A special name for you and me, tonight. 'Laurent', for you look a bit like a Laurent."
   *"Laurent...and Octave[."]," I agreed, with a slow smile. "They sound an intriguing pair."
        "/Bien sûr/!" -->
   *Was 'Laurent' better than 'Jean'?[] Ah well, it was too late to argue the matter.
- Octave told me he was a free person of colour now: I was aghast to realise he had been a slave before the Civil War, and indeed still worked as a servant for the very same family!
```

"Weave"

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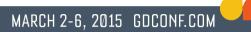
```
hub: vk hn main
  -> vk hm day1
   -> yk hn murder
   -> vk hn inv starts
   I began my investigations
   I spent the next day
   A few days down, and I felt I had learned very little: or if I had learned a lot, I was too confused to see it! To try and clear my head, I spent a few hours
   I had barely any time left! Hawaii was fast approaching. -->time_running_out
   {not -->slowdown: -> yk_hn_final }
   I continued my investigations
   We had slowed down, giving me one more day in which to uncover the truth! I spent it
       -> vk hn final
   * ... talking to Monsieur Jaffer[]. ... → vk hn Jaffer
   * ... in conversation with the captain[]. ... → vk hn capt
   * ... asking questions of Mademoiselle Carlotta[]. ... -> yk_hn_carlotta
   * ... with General Peters[]. ... -> vk hn peters
   * ... at the scene[]. ... -> yk_hn_scene
   * ... mulling over what I had learned so far[]. ... -> yk_hn_muse
           { --> time running out }
   * ... begging the Captain to slow down the ship[] to give me more time. ... --> slowdown
           { --> time running out }
time_running_out
   I used what I had --> top
- slowdown
   He looked considered for a long moment, then nodded.
   ~ delav(1)
           >>> Incident: text = "An extra day to solve the case!"
   "Very well. But one day, Passepartout, and use it wisely."
   * I thanked him[] and wasted no more time, but rather ... --> top
   * I did not think one day would be enough[] but arguing got me nowhere. So ... --> top
```

"Hub"

Ink

- Optimised for humans and redrafting
 - Fast to type, scan and reflow
- Low cost of logic, especially for "history"
- Mix and match of flow structures
- But also
 - Flow control if and switch blocks
 - Fully featured logic variables, subroutines, functions, mathematics

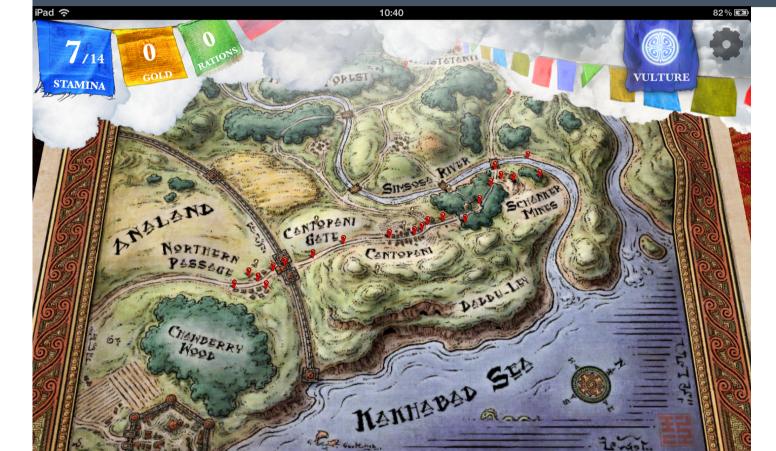
Branching



"But, like, do my choices really matter?"

- At time of outcome? callback
- At time of choice? UI indicator?
- ...Both of these require player trust first

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Maps

Sorcery! (2013)



GAME DEVELOPERS CONFERENCE® 2015 Û DAY 6 6:47 AM £3,448 SUNDAY VENICE

Maps

80 DAYS (2014)

Maps prove branching

- Visible cause-and-effect
- Visible unexplored content
- Medium-term strategy
- ...Basically, it's a pretty flow-chart
- Creates expectation of branching



£3,727 **DAY 16** WEDNESDAY 2:39 PM



Resources





Resources

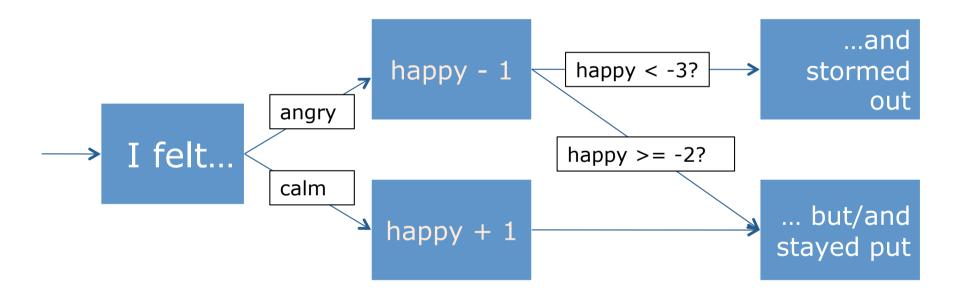
- Easy way to provide consequence
- Items can be "worked in"
- Resource UI contextualises narrative



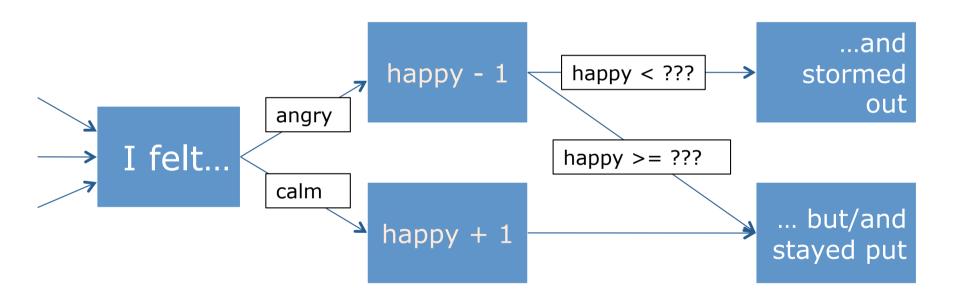


Character

Simplest +/- model



Simplest +/- model ... fails



"How unhappy is unhappy?"

Character tracking in a branching environment

Internally, each stat is stored as two numbers which only ever increase

```
tension = (tension-up, tension-down)
```

We record which kind of action the player took

```
raise(tension) => tension-up++
lower(tension) => tension-down++
```

We query "what %age of actions were y?"

```
high(tension) = (tension-up / (tension-up + tension-down)) > 0.9
up(tension) = (tension-up / (tension-up + tension-down)) > 0.7
low(tension) = (tension-up / (tension-up + tension-down)) < 0.3
down(tension) = (tension-up/ (tension-up + tension-down)) > 0.1
```

Character tracking in a branching environment

- Details of character system are black-boxed
- Writer has two actions

```
~ raise(tension), ~lower(tension)
```

• ...and four queries

```
high(tension) up(tension),
down(tension), low(tension)
```

Monsieur Fogg turned to me. "And what," he asked, most gently, "is this {up(tension):wild goose chase|, ah, diversion,} we find ourselves on?"



Character tracking in a branching environment

- Consequences:
 - No balancing required
 - Game is "scattered" with stat changes
 - Self-stabilises: individual choices have less impact
 - All story outcomes are possible
- "Cons":
 - Pretty hard to communicate to the player
 - Basically impossible to min-max



"You are in jest!" I told him in dignified affront. "You make mock of me, Monsieur."

"I am quite serious. Pack my evening jacket. There is not a moment to waste!"

You, Passepartout, now have funds!

Your character is now polished.

"But of course," I answered, still extremely suspicious.

He nodded. "Good. Pack my evening jacket. There is not a moment to waste!"

You, Passepartout, now have funds!

Your character is now dependable.

"But I have not prepared!" I said wretchedly, quickly trying to organise a list of necessary items in my mind.

"Then do it now. Pack my evening jacket.

There is not a moment to waste!"

You, Passepartout, now have funds!

Your character is now steadfast.

Skill = adroitness, competence, ability

Style = extroversion, pizzazz, flair

		SCRUFF			MID			STYLE
		SCRAPPY 5	10	30	TIDY 50	70	90	SLICK 95
SMART	95	crafty	knavish	skilful	dab-handed	bright	superior	brilliant
	90	slippery	shrewd	sharp	dependenable	zestful	courageous	slick
	70	scrappy	cunning	astute	organised	well-heeled	suave	stylish
MID	50	ramshackle	careless	shabby	steadfast	presentable	polished	smooth
	30	grubby	loose	untidy	old-fashioned	mannered	manicured	chivalrous
	10	unkempt	dishevelled	slovenly	addled	dauntless	gallant	foppish
USELESS	5	calamitous	slapdash	slipshod	foolhardy	reckless	unpredictable	dilettante

Plot Explosion

Avoiding Explosions

- Different routes to same result
 - Shift the focus / sleight-of-hand
- Coerce the player
 - Nested options so the "forcing" is hidden
 - Use another character
 - Blatant clues!
- ... ultimately, gamers like explosions

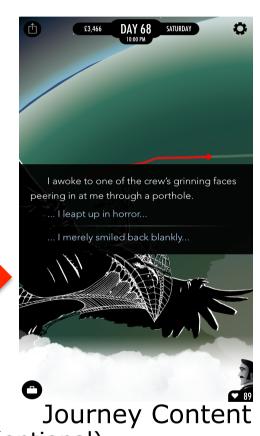
From Scene to Story

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Basic Loop



DAY 19 £4,289 SATURDAY HERAT I am quite sure this departure could be The "Kamer-Taj" departs



Market (optional)

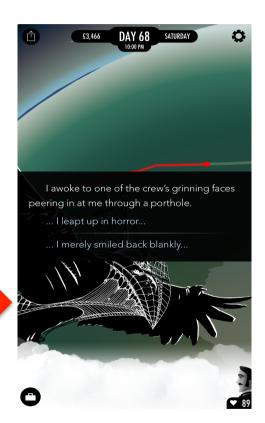
Journey Choice Fogg / NPC (optional)



Revised Loop







Journey Choice

ice City Content (opt) Market (optional) Fo

Fogg / NPC (opt)

Conclusions, or wot we think

Meaningful choices

- ... don't have to be big...
- ... they can be simple and stack remorselessly
- Branching
 - ...do it, and prove it!
- Game below, story above
 - Reflect the game state in the story
- Authoring formats should enable humans

Thanks for listening!

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