## What Ails Thee? - Design Document

## Greenwich Game Jam 23.2 - Theme: Welfare

Game Mechanics ..... 2
Balancing Humours ..... 2
Diagnosing and Treating Patients ..... 2
Crafting Medicines ..... 3
Funds and Payment ..... 4
Symptoms ..... 4
Sanguis ..... 4
Phlegm ..... 4
Choler ..... 5
Melancholia ..... 5
Dialogue Strings - Patient Arrives ..... 6
Preamble ..... 6
Mild Excess (1) ..... 6
Moderate Excess (2) ..... 7
Extreme Excess (3) ..... 7
Dialogue Strings - Patient Leaves ..... 8
Preamble ..... 8
Mild Excess (1) ..... 9
Moderate Excess (2) ..... 9
Extreme Excess (3) ..... 10
Additional Text ..... 10
Intro Letter ..... 10
Book Instructions ..... 11
Game Win ..... 11
Game Lose (Incompetence) ..... 11
Game Lose (Bankruptcy) ..... 11
Ingredients ..... 11
UI ..... 12
Paper Plate Prototype ..... 13

Premise: You play as the apprentice to a medieval physician. Patients arrive with various ailments, and you must balance their humours to restore them to health.

Genres: Simulation and Puzzle
Tone: Comic-Historical
Main Verbs: Diagnose (physician), Craft/Brew (medieval)
Core Game Loop: A patient will arrive and describe their symptoms. The player will need to diagnose them and craft a medicinal treatment from the available ingredients. The patient will then evaluate the success of the treatment (describing any new symptoms), pay, and leave.

Victory Conditions: Earn a sufficient amount of money to please your master
Failure Conditions: Run out of money entirely, or fail to make enough money by the end of the day

## Game Mechanics

## Balancing Humours

There are four humours, each of which is associated with a particular colour and element, and each of which is paired with an opposing humour:

| Sanguis (Red, Air) | opposing | Phlegm (Turquoise, Water) |
| :--- | :--- | :--- |
| Choler (Yellow, Fire) | opposing | Melancholia (Indigo, Earth) |

An excess of a particular humour in the patient produces certain symptoms. The degree of the humour's excess determines the severity of the symptoms.

Balancing a particular humour requires giving the patient a medicine that contains the opposing humour in equal degree. For example, a patient that has an Extreme Excess of Sanguis requires a medicine that contains an Extreme Excess of Phlegm.

Patients can have an excess of two humours, provided those humours are not in opposition. For instance, a patient can have an excess of Sanguis and Choler, but NOT an excess of Sanguis and Phlegm (since those would cancel each other out).

There are three degrees of excess for each humour: Mild Excess (+1), Moderate Excess (+2), and Extreme Excess (+3).

Note: We code this on a $7 x 7$ grid with $x$ and $y$ coordinates, with $x=$ Sanguis, $y=$ Choler, $-x=$ Phlegm, $-y=$ Melancholia (see the Paper Plate Prototype).

## Diagnosing and Treating Patients

Each patient will attempt to verbally describe their symptoms. More Extreme cases will also display visual symptoms (such as boils, horns, stingers, etc.). The player will need to consult The Booke of Physick to determine which of the patient's humours is imbalanced, and to what degree of excess. The player will then need to craft a medicine of the opposing humour(s) in the correct degree.

The diagnosis of the patient will require some interpretation on the player's part (as with real-world diagnosis), since the patients' descriptions of their symptoms will not always use precisely the words present in the book. In some cases, the puzzle will require some lateral thinking or deciphering a play on words (e.g., what the book describes as 'Bullishness' will present as a literal pair of horns sprouting from the patient's head).

Once treated, the patient will assess the efficacy of the player's treatment. If the cure is perfect and all of the humours have been correctly balanced, the patient will praise the player; otherwise, the patient will verbally describe any new symptoms resulting from the treatment (with visual symptoms appearing if applicable), and berate the player if those symptoms result from an Extreme Excess.

The patient will then leave, and the amount they pay the player will depend on the efficacy of the treatment.

Note: Since the tone of the game is light-hearted, symptoms and descriptions will for the most part need to steer clear of genuinely distressing medical conditions. Instead, skew towards favouring 'vices' (i.e., what was considered 'sinful behaviour') and 'absurdity' (e.g., transforming into an animal, growing suddenly short/tall, etc.).

## Crafting Medicines

The player has access to 12 Ingredients at any given time. Each Ingredient contains a Mild, Moderate, or Extreme excess of a particular humour, with a smaller proportion of Ingredients containing an excess of two humours. The player will need to consult The Booke of Physick to determine the properties of Ingredients. They will then need to combine Ingredients together until they have a medicine that will balance the humour of the current patient.

The puzzle of crafting the correct medicine is made more challenging due to how relevant information is presented. For one thing, a medicine will turn a particular colour depending on what humour(s) it currently contains, which means the player will need to consult a colour chart in The Booke of Physick to determine the medicine's current composition. For example, a medicine that contains an excess of Phlegm will be Turquoise, while a medicine that contains a combination of Sanguis and Choler will be Orange.

Moreover, the properties of Ingredients are displayed in The Booke of Physick in terms of the element associated with the Ingredient (Air, Water, Fire, and Earth), as opposed to the humour or the colour. Information should also be provided regarding the degree of Excess the Ingredient contains. For example, an Ingredient that contains an Extreme Excess of Sanguis will be associated with Air in the $3^{\text {rd }}$ Degree, while an Ingredient that contains a Mild Excess of Choler and a Moderate Excess of Phlegm will be associated with Fire in the $1^{\text {st }}$ Degree and Water in the $2^{\text {nd }}$ Degree.

To produce the correct medicine, the player essentially needs to cross-reference the three different forms of information - symptom, colour, and element - that are associated with each humour in order to work out how to balance the patient's humours.

Note: Since the player is supposed to be an apprentice, they shouldn't always succeed. Instead, they should be learning from mistakes ('failing upwards') and becoming more familiar with how the various systems relate to each other as they play.

## Funds and Payment

Restocking Ingredients will cost money, and Ingredients received are randomly selected. The player will therefore need to decide whether it is worth providing an imperfect treatment as opposed to wasting Ingredients in trying to arrive at a perfect treatment. Moreover, since the cost of restocking is a flat rate, the player is incentivised to use up as many Ingredients as possible before restocking.

## Symptoms

## Sanguis

(Blood; Air; Red)
[Historically located in the Liver]
Psychological Symptoms: Typically associated with restlessness, desire, intemperance, hysteria, etc.
Physical Symptoms: Swellings, nosebleeds, sweating/high temperature, etc.
Extreme Symptoms: Delusions

| Humour | Code | Description in Book | Visual alterations |
| :--- | :--- | :--- | :--- |
| Sanguis (x) | 1.1 | Restlessnesse |  |
|  | 1.2 | Lustfulnesse |  |
|  | 1.3 | Gluttonie |  |
|  | 1.4 | Excitement |  |
|  | 1.5 | Drunkennesse |  |
|  |  |  | Enlarged nose |
|  | 2.1 | Sweatinges | Enlarged ears |
|  | 2.2 | Great heate |  |
|  | 2.3 | Swellinges |  |
|  | 2.4 | Swellinges |  |
|  |  |  | Frog legs |
|  | 3.1 | Flights of fancie |  |
|  | 3.2 | Flights of fancie |  |
|  | 3.3 | Leapinges and jumpinesse |  |

## Phlegm

(Phlegm; Water; Turquoise)
[Historically located in the Lungs (and/or the Brain)]
Psychological Symptoms: sleepiness/sloth, apathy, forgetfulness, ignorance, foolishness, etc.
Physical Symptoms: cold/flu, boils, physical aches/rheumatism, dizziness
Extreme Symptoms: 'Sluggishness', 'Extreme Thoughtlessness' (disappearing head)

| Humour | Code | Description in Book | Visual alterations |
| :--- | :--- | :--- | :--- |
| Phlegm (-x) | 1.1 | Forgetfulnesse |  |
|  | 1.2 | Slothfulnesse |  |
|  | 1.3 | Slothfulnesse |  |


|  | 1.4 | Thoughtlessnesse/Ignorance |  |
| :--- | :--- | :--- | :--- |
|  | 1.5 | Foolishnesse |  |
|  |  |  | Facial boils |
|  | 2.1 | Boils and pustules |  |
|  | 2.2 | Boneache |  |
|  | 2.3 | Dizzinesse |  |
|  | 2.4 | Coughs and sneezinges | Donkey ears |
|  |  |  | Head disappears |
|  | 3.1 | Asinine behavioures | Snail shell |
|  | 3.2 | Severe thoughtlessnesse |  |

## Choler

(Yellow Bile; Fire; Yellow)
[Historically located in the Spleen]
Psychological Symptoms: anger, envy, pride, irritability, etc.
Physical Symptoms: jaundice, headache, toothache, diarrhoea, vomiting, etc.
Extreme Symptoms: 'Waspishness', 'Bullishness', 'Loftiness' (sudden tallness)

| Humour | Code | Description in Book | Visual alterations |
| :--- | :--- | :--- | :--- |
| Choler (y) | 1.1 | Wrath |  |
|  | 1.2 | Wrath |  |
|  | 1.3 | Envy |  |
|  | 1.4 | Pride |  |
|  | 1.5 | Irritabilitie | Face turns yellow |
|  |  |  |  |
|  | 2.1 | Flatulence |  |
|  | 2.2 | Jaundice | Wasp's sting |
|  | 2.3 | Vomitinges | Bull's horns |
|  | 2.4 | Headaches | Grown very tall |
|  |  |  |  |

## Melancholia

(Black Bile; Earth; Indigo)
[Historically located in the Gallbladder]
Psychological Symptoms: cowardliness, regret, anxiety, guilt, despondency, etc.
Physical Symptoms: blackheads (acne), baldness, thinness, stomach-ache, hunger pangs, etc.
Extreme Symptoms: 'Self-disgust' (body dysmorphia/misrecognition), 'Smallness', 'Long-facedness’

| Humour | Code | Description in Book | Visual alterations |
| :--- | :--- | :--- | :--- |
| Melancholia (-y) | 1.1 | Fearfulnesse |  |
|  | 1.2 | Guiltinesse |  |
|  | 1.3 | Terrors |  |
|  | 1.4 | Regretfulnesse |  |
|  | 1.5 | Sadnesse | Blackheads |
|  |  |  | Lost hair |
|  | 2.1 | Acne vulgaris | Grown very thin |
|  | 2.2 | Bellyache |  |
|  | 2.3 | Baldnesse | Face grown long |
|  | 2.4 | Thinnesse | Become very short |
|  |  |  |  |
|  | 3.1 | Self-disguste |  |
|  | 3.2 | Long-facednesse |  |
|  | 3.3 | Smallnesse |  |
|  |  |  |  |
|  |  |  |  |

## Dialogue Strings - Patient Arrives

Preamble
[Randomly select from the following depending on nature of imbalance:]

| Sanguis (x) | I am deeply troubled, for |
| :--- | :--- |
|  | I am all aflutter, for |
|  | I am most agitated, for |
|  |  |
| Phlegm (-x) | I am most confounded, for |
|  | I am much astounded, for |
|  | I am sore perplexed, for |
|  |  |
| Choler (y) | I am sorely vexed, for |
|  | I am most displeased, for |
|  | I am irked indeed, for |
|  |  |
| Melancholia (-y) | I am deeply afeared, for |
|  | I am most perturbed, for |
|  | I am much distressed, for |

Mild Excess (1)

| Sanguis (x) | 1.1 | I canst not find rest, even in church |
| :--- | :--- | :--- |
|  | 1.2 | I am plagued by lustful thoughts |
|  | 1.3 | mine appetite hath become boundless |
|  | 1.4 | I hath become too easily excitable |
|  | 1.5 | I hath developed an overfondness for liquor |
|  |  |  |


| Phlegm (-x) | 1.1 | I oft canst not recall my purpose upon entering a room |
| :--- | :--- | :--- |
|  | 1.2 | I can hardly keep mine eyes from closing |
|  | 1.3 | I be too much inclined to slumber |
|  | 1.4 | I hath a slowness of thought that giveth others much amusement |
|  | 1.5 | I oft find myself engaged in foolishness |
|  |  |  |
| Choler (y) | 1.1 | I am filled with ungovernable fury, like unto a maddened goose |
|  | 1.2 | my rage knows neither check nor respite |
|  | 1.3 | my neighbour's ass be far greater than mine |
|  | 1.4 | others perceive not my greatness, despite that I am so mighty |
|  | 1.5 | I do find my companions most infuriating |
|  |  |  |
| Melancholia (-y) | 1.1 | I be in terror of mine own shadow |
|  | 1.2 | I hath become filled with guilt for sins too heinous for a priest to shrive |
|  | 1.3 | even the smallest upset doth fill me with quaking dread |
|  | 1.4 | I hath made many foolish blunders that do haunt me daily |
|  | 1.5 | I feeleth myself whelmed with much emotion, like unto a river in spate |

Moderate Excess (2)

| Sanguis (x) | 2.1 | mine excess of sweating hath ruined my Sunday garments |
| :--- | :--- | :--- |
|  | 2.2 | my skin doth burn like unto a bonfire in Midsummer |
|  | 2.3 | my nose hath grown like unto a strawberry |
|  | 2.4 | mine ears hath grown exceeding large |
|  |  |  |
| Phlegm (-x) | 2.1 | my fair visage is marred with boils |
|  | 2.2 | my bones doth grind together like millstones |
|  | 2.3 | I am unstable as a teeter-totter |
|  | 2.4 | I am - ACHOO! - prone to much sneezing |
|  |  |  |
| Choler (y) | 2.1 | my rear vents excessively |
|  | 2.2 | my features hath adopted an yellowish hue |
|  | 2.3 | mine innards doth rise up in my throat |
|  | 2.4 | my skull feeleth as it were splitting at the seams |
|  |  |  |
| Melancholia (-y) | 2.1 | my countenance hath become bespotted with dark craters |
|  | 2.2 | my belly growls like unto a distempered hound |
|  | 2.3 | I doubt not that I shall soon be hairless as an egg |
|  | 2.4 | mine arms and legs hath become like unto twigs |

Extreme Excess (3)

| Sanguis (x) | 3.1 | the grey-skinned crew of a flying ship didst probe my fundament |
| :--- | :--- | :--- |
|  | 3.2 | a dragon didst fly me to the moon yesternight |
|  | 3.3 | I hath been transmuted to a jumping frog |
|  |  |  |
| Phlegm (-x) | 3.1 | I hath grown the ears of a donkey |
|  | 3.2 | mine head hath disappeared |


|  | 3.3 | I hath been transmuted into a snail |
| :--- | :--- | :--- |
|  |  |  |
| Choler (y) | 3.1 | a stinger hath emerged from above my rump |
|  | 3.2 | a bull's horns hath sprouted from mine head |
|  | 3.3 | I hath grown exceeding tall |
|  |  |  |
| Melancholia (-y) | 3.1 | I hath sprouted an hideous, fleshy growth that bears two holes betwixt <br> mine eyes and mouth |
|  | 3.2 | my face hath grown exceeding long |
|  | 3.3 | I hath been greatly reduced in stature |

Dialogue Strings - Patient Leaves
Preamble
Randomly select from the following depending on degree of imbalance:

| Perfect Cure (0) | A miracle, doctor! I am cured! |
| :--- | :--- |
|  | Thou art a most excellent physican, doctor, for I am now in perfect <br> health. |
|  | My gratitude, most esteemed doctor, for thou hast cured me rightly! |
|  | Art thou the usual physician? Never before hath I been healed so surely! |
|  | Thou art a paragon, doctor, for I am now in right good health! |
|  | Indeed thou art wise, doctor, for mine ills hath left me completely! |
|  | My thanks, doctor, for now I feeleth aright through and through. |
|  | A most excellent cure, good doctor! Most excellent indeed! |
|  | I hope thou doth remain here, good doctor, for thou art truly a learned <br> physician! |
|  | I shall be certain to recommend thy cures, wise doctor! |
|  | A perfect cure, doctor! I shall see thee lauded by the town crier! |
| Mild Excess (+/-1) | Glad I am that thou art here, doctor, for thou art wise indeed! |
|  | I seemeth a little better, though it seemeth also |
|  | This physick hath done me good, yet |
|  | My thanks, doctor, for ridding me of my malady, though |
|  | Well, doctor, though hast mostly cured me, though |
|  | I thank thee for thy physick, doctor, though |
|  | Thy remedy worketh in the most part, doctor, though |
|  | I seemeth much improved in my former distemper, though |
|  | Thou hast done well, doctor, though |
|  | Thou hast my gratitude for thy cures, doctor, though |
|  | I thank thee, doctor, for my complaint hath eased - yet |
|  | Thou hath some skill, doctor, yet now |
|  |  |
|  | It seemeth I be not much improved, for now |
|  | Thou canst not boast of much success, for now |
|  | I hath little cause to celebrate, for now of my former ailment |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |


|  | Thy cures are most disagreeable, for now |
| :--- | :--- |
|  | Thy physick hath hardly aided me, for it seemeth |
|  | I feeleth thy cure be almost worse than the malady, for now |
|  |  |
| Extreme Excess (+/-3) | A pox on thee, doctor, for |
|  | Foolish physician, |
|  | I am much distressed, for |
|  | Thou knave, |
|  | I doth demand to speak with thy manager, for |
|  | Thou hast forever lost my custom, for |
|  | Thou surely hast mutton for brains, for |
|  | Either thou art fool or villain, for |

Mild Excess (1)

| Sanguis (x) | 1.1 | I feeleth restless as a flea |
| :--- | :--- | :--- |
|  | 1.2 | I feeleth most lustful |
|  | 1.3 | I feeleth a great desire to gorge myself in yonder pie-shop |
|  | 1.4 | my limbs do twitch restlessly |
|  | 1.5 | I hath an overpowering thirst for liquour |
|  |  |  |
| Phlegm (-x) | 1.1 | it seemeth I canst not recall mine own name |
|  | 1.2 | I feeleth passing weary |
|  | 1.3 | I feeleth a pressing need to sleep |
|  | 1.4 | it seemeth I am currently bereft of thought |
|  | 1.5 | I feeleth newly inclined to foolishness |
|  |  |  |
|  | 1.1 | I seemeth filled with sudden anger |
|  | 1.2 | I doth feel a newfound rage |
|  | 1.3 | I feeleth most envious of thy good fortune |
|  | 1.4 | it seemeth thou art more inferior to me than thou wert afore |
|  | 1.5 | I do find thee grating upon my nerves |
|  |  |  |
| Melancholia (-y) | 1.1 | I feeleth anxious as a startled fawn |
|  | 1.2 | I feeleth of a sudden wracked with guilt |
|  | 1.3 | I feeleth a sense of pressing dread, from whence I cannst not say |
|  | 1.4 | my many blunders seemeth greater than before |
|  | 1.5 | I feeleth a sadness that I canst not explain |

Moderate Excess (2)

| Sanguis (x) | 2.1 | I hath the sweats most powerful |
| :--- | :--- | :--- |
|  | 2.2 | my skin be suffused with a terrible heat |
|  | 2.3 | my nose hath swollen red and large |
|  | 2.4 | mine ears hath become like unto two sails |
|  |  |  |
| Phlegm (-x) | 2.1 | thou hast marred my looks with boils |
|  | 2.2 | I feeleth my bones grinding most painfully |
|  | 2.3 | it seemeth that I canst not hold my balance |


|  | 2.4 | I am - ACHOO! - filled with - ACHOO! - a need to sneeze |
| :--- | :--- | :--- |
|  |  |  |
| Choler (y) | 2.1 | my rump hath become full of wind |
|  | 2.2 | my face hath become yellow like unto a buttercup |
|  | 2.3 | I feeleth a pressing need to vomit |
|  | 2.4 | mine head doth ache most fiercely |
|  |  |  |
| Melancholia (-y) | 2.1 | thou hath given me black spots upon my face |
|  | 2.2 | my belly seemeth most perturbed with rumbling |
|  | 2.3 | mine hair doth drop from mine head like unto a dog in summertime |
|  | 2.4 | my body hath grown thin like unto a rake-handle |

## Extreme Excess (3)

| Sanguis (x) | 3.1 | thy treatment hath bestirred hidden memories of grey-skinned men <br> from the stars probing my fundament |
| :--- | :--- | :--- |
|  | 3.2 | thou hath given me foolish memory of flying upon a dragon |
|  | 3.3 | thou hath transmuted me to a frog |
|  |  |  |
| Phlegm (-x) | 3.1 | thou hath given me the ears of an ass |
|  | 3.2 | thou hath caused mine head to vanish |
|  | 3.3 | thou hath transmuted me to a snail |
|  |  |  |
| Choler (y) | 3.1 | thou hath caused a stinger to sprout from my tailbone |
|  | 3.2 | thou hath given me the horns of a bull |
|  | 3.3 | thou hath made me like unto a giant |
| Melancholia (-y) | 3.1 | thou hath given me an hideous, pointy growth between mine eyes and <br> mouth |
|  | 3.2 | thou hath made my face exceeding long |
|  | 3.3 | thou hath made me exceeding small |

## Additional Text

Intro Letter
Boy,
This Day thou shalt mind the Shoppe in my stead, for the Widow Stapes shall not woo herself.
Maketh me a Proffitt of 150 Farthings, and thou shalt have a second Shirt and leave to wash thyself on Sundays.

Maketh me a paltry Sum, and I shall wax exceeding Wrath, and shall beateth thee with Reeds.
Tend to the Afflicted by ballancing their Humours; The Booke of Physick shall guide thee in this Wise. Remember well that an imperfect Cure atimes be prefferable to a costly one.

Grumio can be sent for more Ingreedients, yet be thee mindful that he chargeth per Journey and not per Item, for he be a Dunce.

Your Benificent Master,
Francis Shadwell

## Book Instructions

The taske of any goode Physick is the ballancing of the patient's humours. A slight excesse of a particular humour shall yield mental distempers, whilst a greater excesse shall yield physical ailments and even gross transformations.

Be ye mindful that a patient mayst suffer from an imballance of more than one humour if bearing more than one symptome.

To rightly ballance an humour, the patient must be given a draught or elixir of the opposing humour, matching it in strength.

Thus shall an excesse of Phlegm in the patient be ballanced with a Sanguine potion, whilst an excessee of Choler in the patient be ballanced with a Melancholic potion, and thuswise for other excesses and potions accordinglie.

## Game Win

Thou didst cure many of the afflicted afore thy master's return, rendering him a fine profit. Thus did he giveth unto thee the boons of a second shirt and leave to wash thyself on Sundays.

## Game Lose (Incompetence)

Alas, thy master considered thy earnings meagre, and thusly upon his return he didst beat thee with reeds.

## Game Lose (Bankruptcy)

Alas, thou couldst not afford more ingredients for Physick, and thusly upon his return thy master didst beat thee with reeds.

Ingredients

| Ingredient | Property | Value |
| :--- | :--- | :--- |
| Agrimony | Earth 3 | $(x 0, y-3)$ |
| Betony | Air 1 | $(x 1, y 0)$ |
| Fenugreek | Fire 2 | $(x 0, y 2)$ |
| Fly Agaric | Water 1; Earth 3 | $(x-1, y-3)$ |


| Galangal | Fire 3 | $(\mathrm{x} 0, \mathrm{y} 3)$ |
| :--- | :--- | :--- |
| Hawthorn | Fire 1 | $(\mathrm{x} 0, \mathrm{y} 1)$ |
| Inkcap Mushroom | Water 2; Earth 2 | $(\mathrm{x}-2, \mathrm{y}-2)$ |
| Mandrake | Water 3; Fire 1 | $(\mathrm{x}-3, \mathrm{y} 1)$ |
| Peat Moss | Water 1 | $(\mathrm{x}-1, \mathrm{y} 0)$ |
| Peppermint | Air 3; Fire 2 | $(\mathrm{x} 3, \mathrm{y} 2)$ |
| Poppy | Water 3 | $(\mathrm{x}-3, \mathrm{y} 0)$ |
| Purslane | Air 3 | $(\mathrm{x} 3, \mathrm{y} 0)$ |
| Rosemary | Air 2; Earth 1 | $(\mathrm{x} \mathrm{2} ,\mathrm{y} \mathrm{-1)}$ |
| Sorrel | Air 2 | $(\mathrm{x} 2, \mathrm{y} 0)$ |
| Vervain | Water 2; Fire 2 | $(\mathrm{x}-2, \mathrm{y} 2)$ |
| Witchbutter Fungus | Earth 2 | $(\mathrm{x} \mathrm{0} ,\mathrm{y} \mathrm{-2)}$ |

## UI

A countertop with 3 potion bottles into which players can drop Ingredients. The hue and opacity of the potions will change depending on which humour(s) they contain and in what degree.

A book (The Booke of Physick) containing information pages on:

1) the humours and their associated colours and elements (with a colour wheel showing how combinations of humours will interact to produce blended colours according to basic colour theory [e.g., Sanguis (Red) + Choler (Yellow) = Orange potion);
2) the symptoms associated with each humour, ranked in degree of severity;
3) Ingredients and their related elements (including the degree to which they contain these elements)

A shelf of draggable Ingredients (with a button for restocking Ingredients)
A pile of coins displaying the player's current funds
Tooltip display over Ingredients, funds, and potion bottles (describing colour in case it's difficult to see)

Paper Plate Prototype
[Note: x and y axes have been switched: Sanguis and Phlegm = $\mathbf{( x )}$, Choler and Melancholia $=(\mathrm{y})$ ]


