

# Design Notes for ‘geo\_data\_sci’ web-site.

## Introduction:

### Outline

This website will showcase my interest in all things data-sciencey. It will have;

- links to good resources
- exemplar websites (cutting edge technology / visualisations)
- links to good data-sets
- reviews (books / packages / courses)
- practicalities of starting in this field
- a process map of performing geographical data analysis

### Style

It will be a minimalist website, with the following features;

- flat design
- sans-serif fonts
- high contrast colours, with a small palette of 3 to 5 colours used throughout

The motivation behind the above choices are that the content should be the highlight of this website. A simple back-drop will allow the subject matter to shine through - placing an even greater emphasis on the requirement to have good content. There will be a lot of code in this website, so a mono-spaced font will be used to identify this, much in the same way that code is typically seen formatted in most IDEs.

### Structure

This website will when fully implemented have quite a lot of content, and it may become quite deeply layered. A coherent structure in the initial design stages will allow for a logical navigation pattern, so that users can after a few visits, quickly find the type of content they require. This will also fit in with Google’s and other search engine service providers’ advice that navigable websites do better in terms of Search Engine Optimisation and ranking.

The navigation function can be accessed in two ways - the ribbon bar below the header, with drop-down menus from main subsection titles, and a quick-link function in the footer, where the level two navigation links all appear below the level one links. This will differ in how it is presented across the various platforms in order to achieve a responsive design for the website.

## Design Guidelines:

The following guidelines are being utilised in the design of this website:

### 1. Symbols (Metaphors)

Symbols are being used to represent menu items, as these will be necessary in the mobile version of the website. The ‘hamburger’, ‘lightbulb’ and ‘wrench’ icon will be used to access the menu, inspiration and process menu items respectively.

## 2. Gestalt Disimilarity

The simple technique of rendering the link to the currently loaded page will help the user identify where they are in the context of the navigation menus.

## 3. Map (Metaphor)

A process map will be utilised to explain the data analysis sequence. The concept of metro-maps to visualise complex information will be explored in its ability to represent the data analysis process.

## 4. Gestalt Similarity / Automatic Processing

Topics will be linked to with thumb-nail images surrounded by borders with colour coding to represent their theme. There may be a legend somewhere in the page so that the themes are quickly identifiable, but it is envisaged that the user will eventually learn this colour coding scheme.

## 5. Gestalt Continuity

Maps will clearly be a key aspect of this website, and this theme will be used to try to layout the data analysis process as a map / flow-chart, where users can interpret the sequential and iterative processes of data analysis in an intuitive manner.

## 6. Mental Models

Many mental models will be touched on in this website - the geospatial nature of the subject matter and hence the potential users interest/knowledge of this area lends itself to use of cartographic themes and mental models - perhaps contour lines or cardinality (to be developed / refined / rejected in the final version !). It also has an information science leaning, so aspects of this area of interest will be utilised - the use of non-serif fonts throughout, and non-capitalised “h1” titles with underscores replacing whitespace (more than this would probably get annoying).

## Outline Sketches

The following images are of the homepage, as rendered by a phone, tablet and desktop browser respectively.

This image outlines the process page for the desktop browser.

The following images are the wireframes for the phone, tablet and desktop browser versions of the homepage.

The image below is an example of the process section of the desktop website.

## Grid Decision

It was decided to implement a grid system for this website, it is a simple structure to hang the elements of the website on, and suits the minimal nature of the implementation. The template to be used will probably be skeleton, as to date, this is the only template that the author has got experience with.

For the phone version of the website, a 6 column structure will be utilised, though the main elements will occupy three columns, with smaller elements being positioned with the finer structure:

For the tablet version of the website, a similar structure will be utilised.

For the desktop layout, a twelve column structure will be utilised.

A media query will be used to control the transition from one format to the others.

# PHONE:

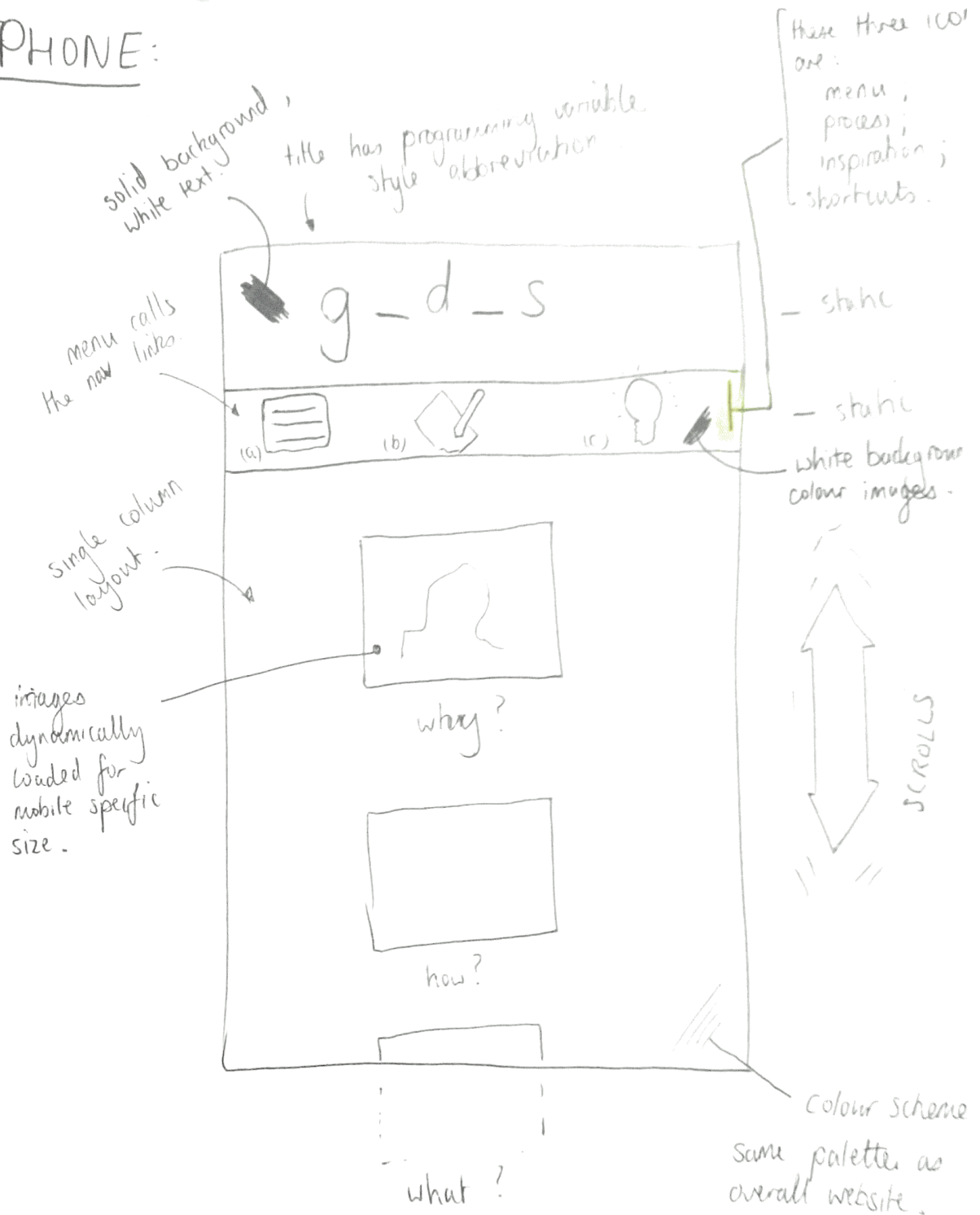


Figure 1: Phone Sketch



Figure 2: Tablet Sketch

\* simple navigation  
 \* uncluttered  
 \* background

# geo\_data - science

A resource for all things data and spatial  
 find a way to do what you want to do!

[home](#) [about](#) [main](#) [background](#) [process](#) [resources](#) [inspiration](#) [index](#)



why?

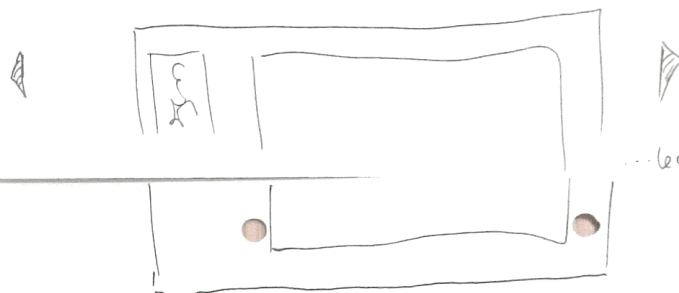


how?



what?

Here is some spatial data, simply analysed..

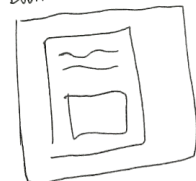


...learn more

read more....

Latest Reviews:

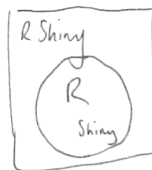
BOOK



PACKAGE (R)



TOOL



main

background

process

resources

inspiration

index

QUICKLINKS  
 STATIC ✓



©

Figure 3: Web Sketch

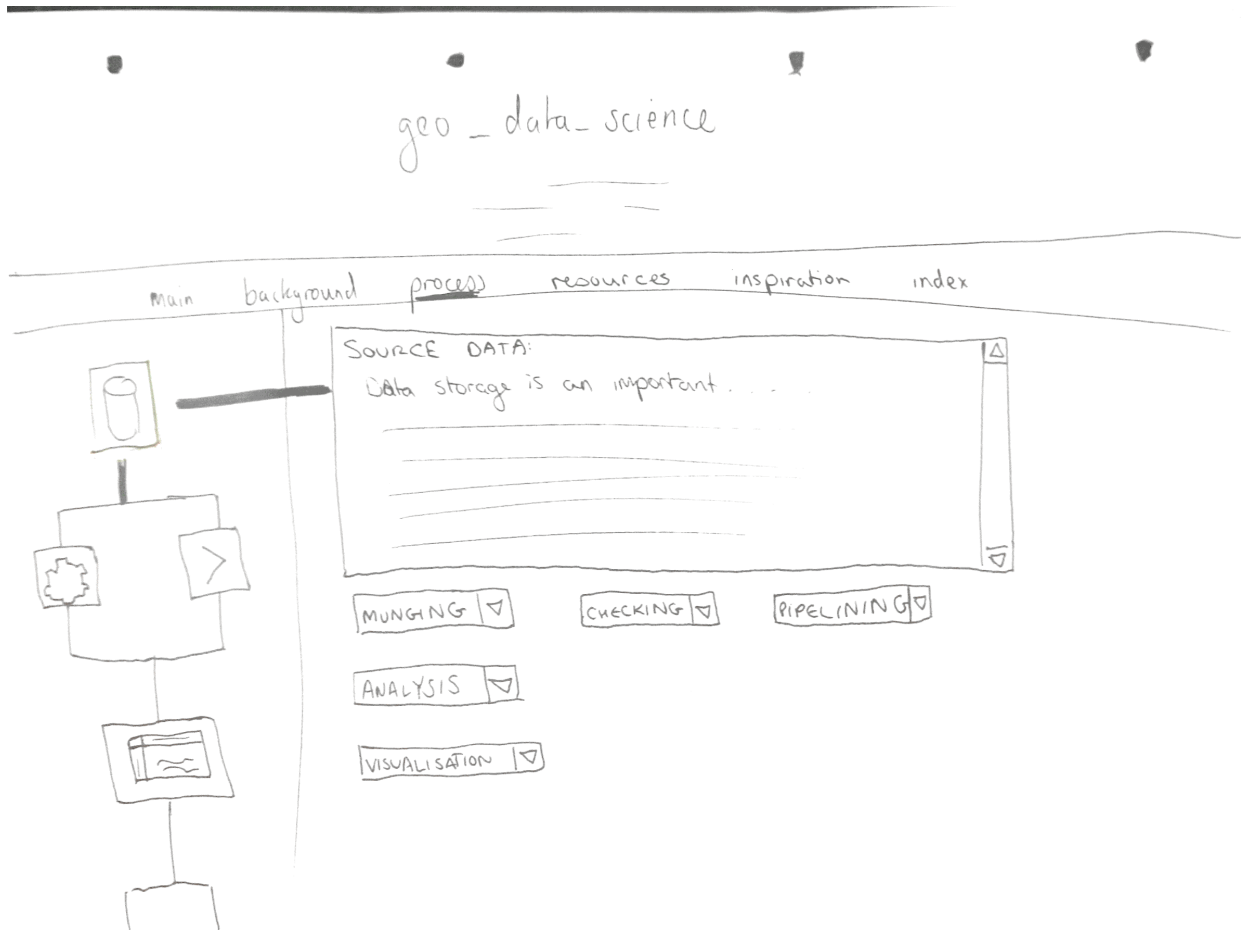


Figure 4: Web Process Sketch

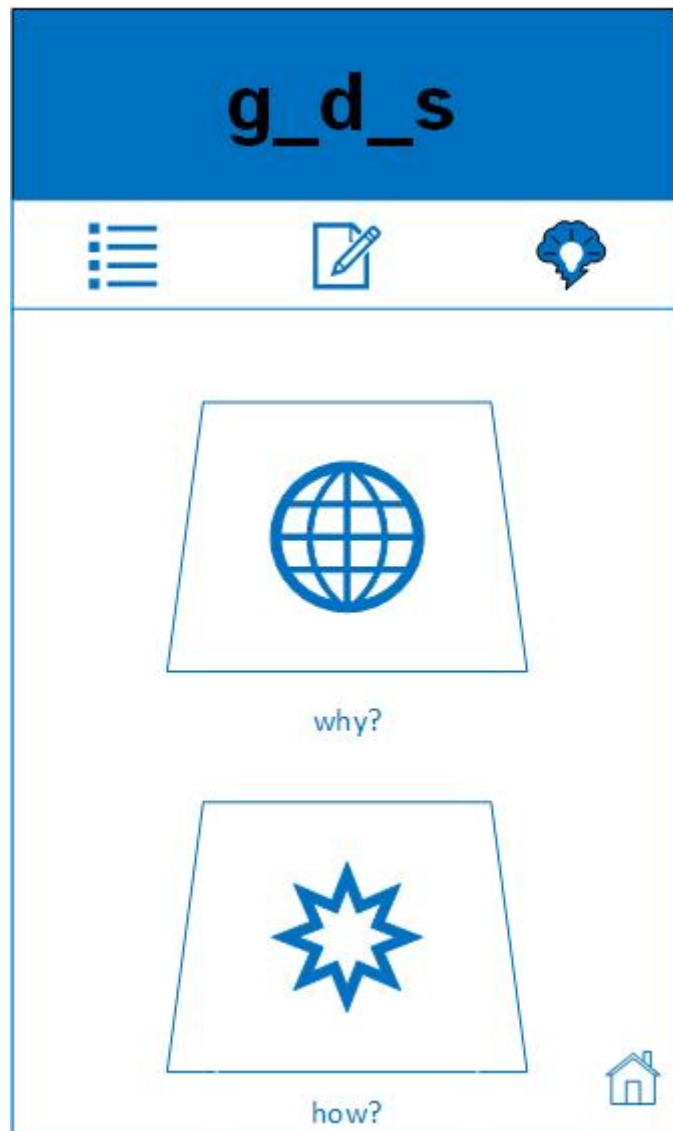


Figure 5: Phone Wire

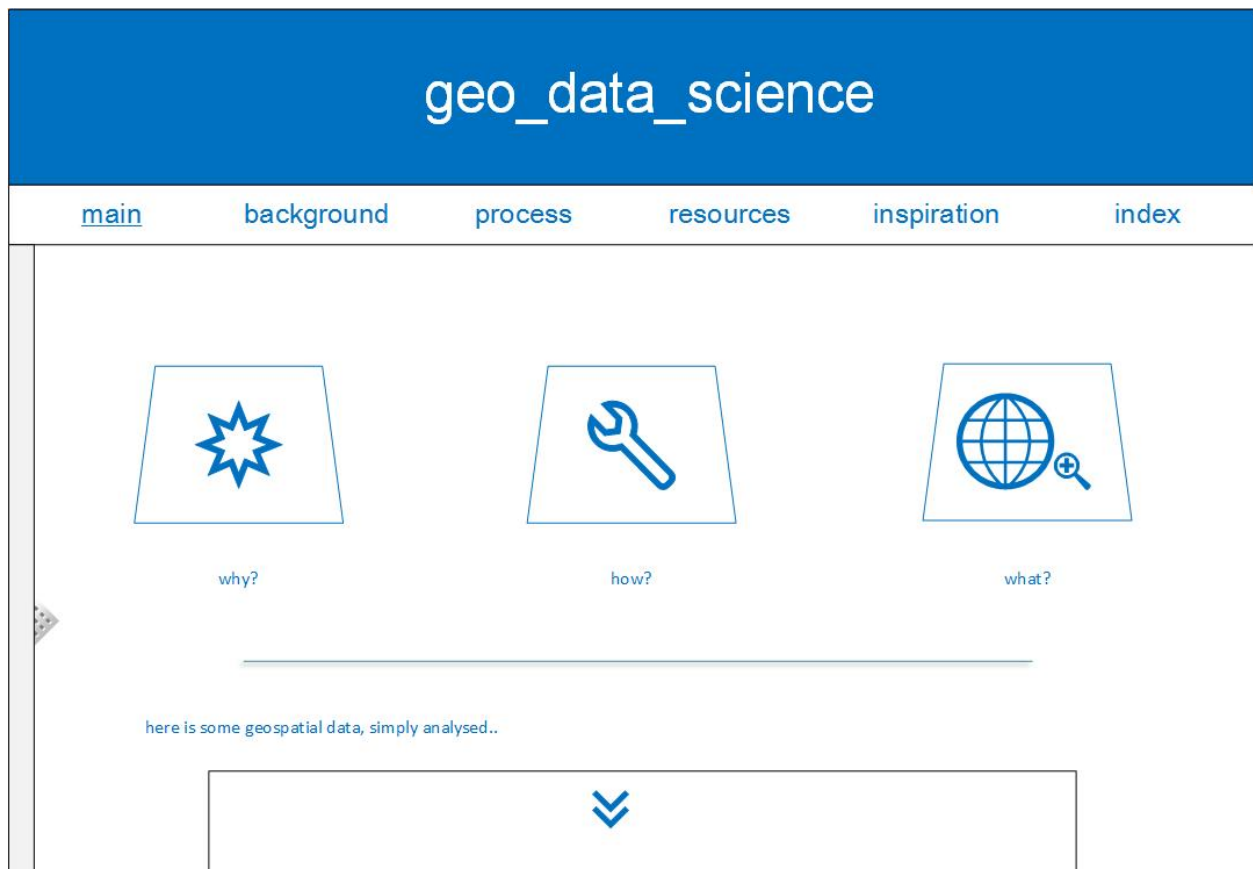


Figure 6: Tablet Wire



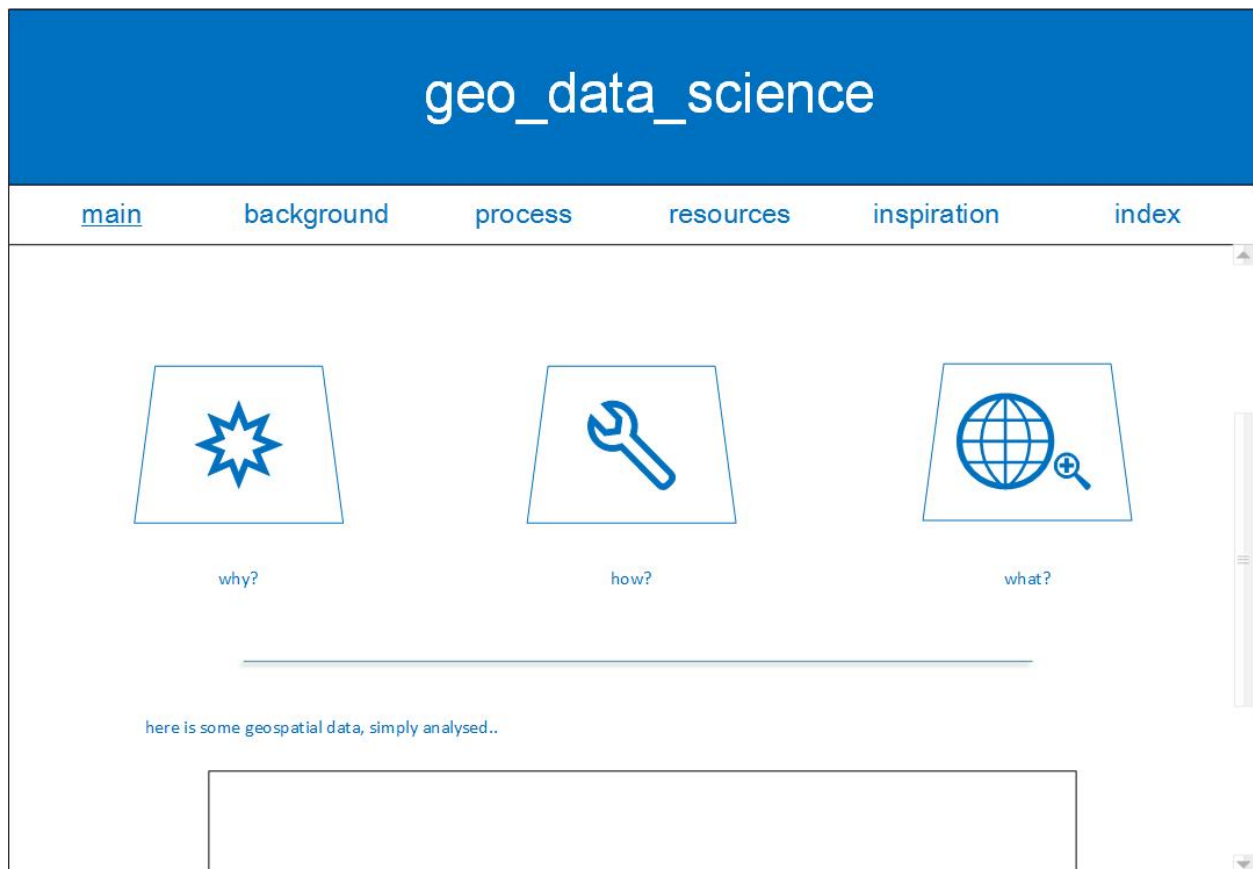


Figure 7: Web Wire

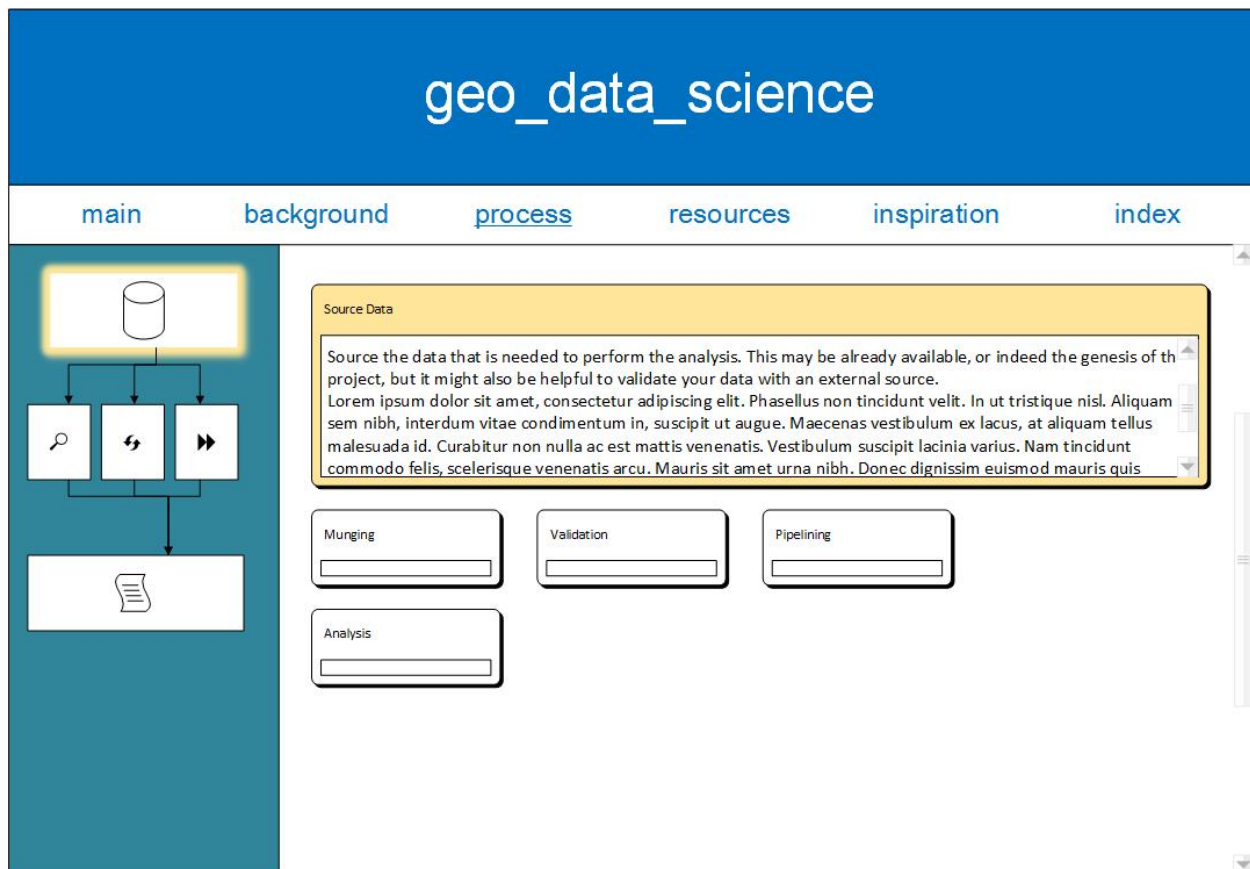


Figure 8: Desktop Process Wire

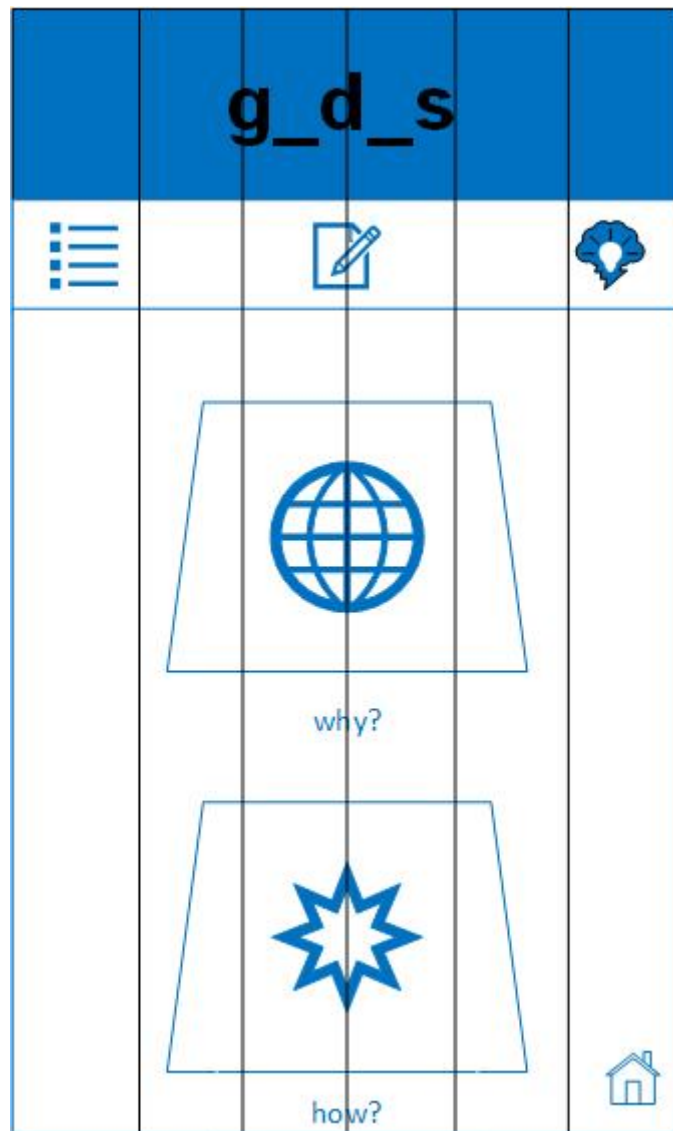


Figure 9: Phone Grid


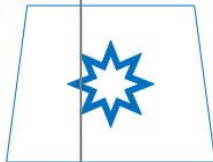
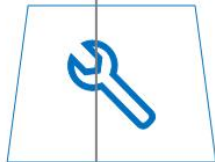


geo_data_science					
<a href="#">main</a>	background	process	resources	inspiration	index
	 why?	 how?	 what?		
	here is some geospatial data, simply analysed..				
					

Figure 10: Tablet Grid