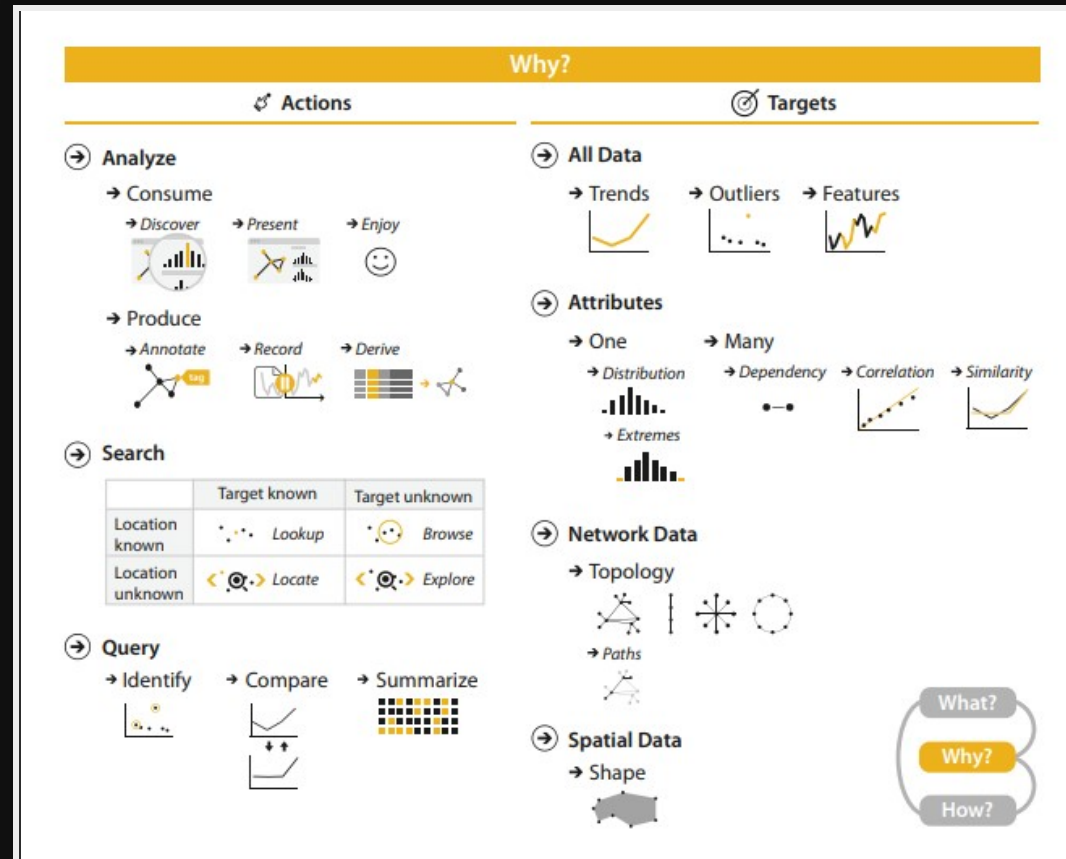


# 3a: Task abstraction

Why do data viz?

# Why: An overview



*Visualization Analysis and Design, chapter 3, Munzner*

# Why task abstraction?

Thinking about *why* in an abstract form, rather than the domain specific way users often talk about data viz.

This will allow us a framework to discuss use cases, which may on surface look different.

# Actions / Targets

This proposed taxonomy is from Munzner's framework  
(Visualization Analysis and Design, chapter 3)

**Actions** in this case is a verb, and targets are **nouns**.

---

Reading: *A multi-level typology of abstract visualization tasks*, Bremmer, Munzner

Reading: *Taxonomy of interactive dynamics for visual analysis*, Schneiderman, Heer

# Viz designer or user?

Are you consuming the visualization or producing it?

Viz tools fall somewhere along a continuum from specific to general.

On the general side, tools are flexible and allow users many choices what to make.

On the specific side, the tool is curated and choices are limited in how an end user can interact with the data set.

# Exploratory vs Explanatory

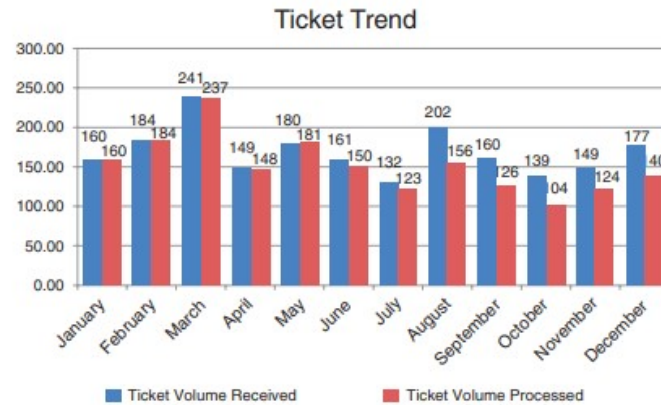
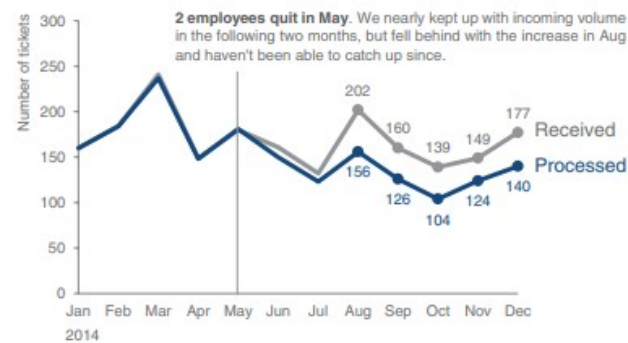


FIGURE 0.2 Example 1 (before): showing data

## Please approve the hire of 2 FTEs

to backfill those who quit in the past year

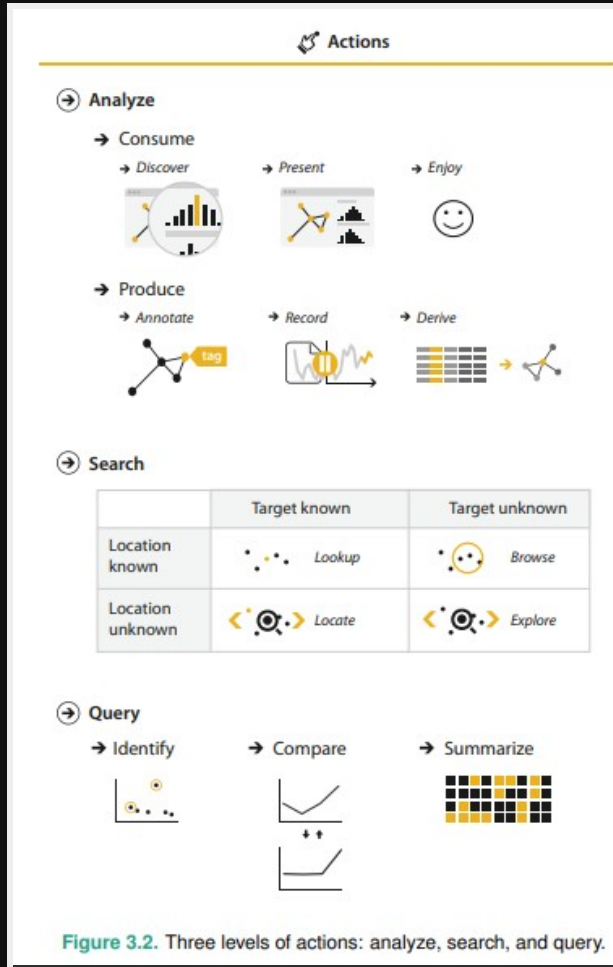
Ticket volume over time



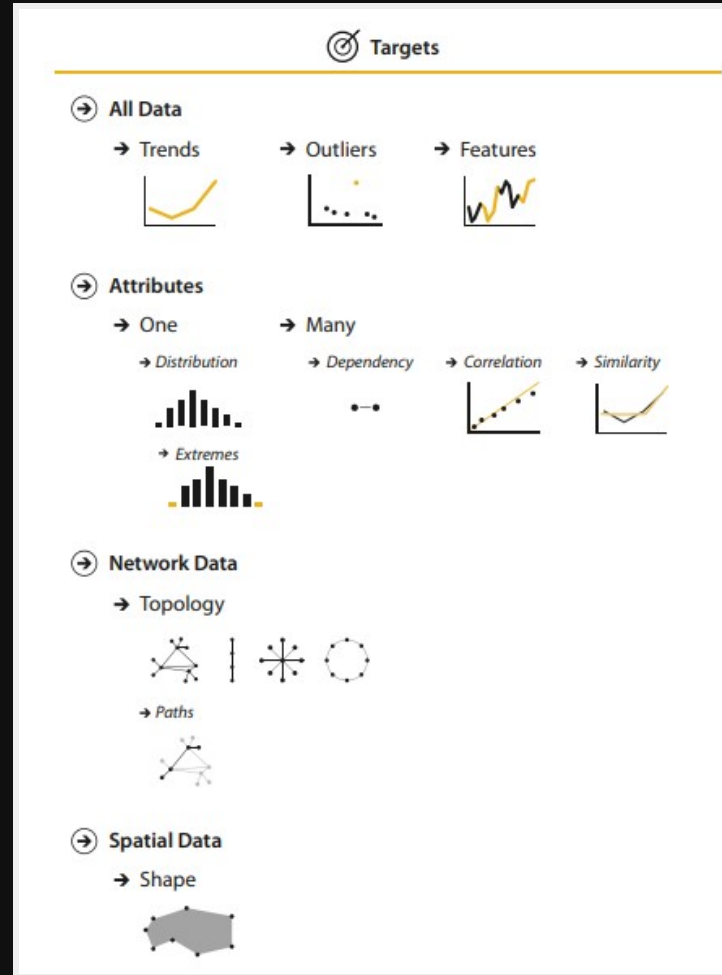
Data source: XYZ Dashboard, as of 12/31/2014 | A detailed analysis on tickets processed per person and time to resolve issues was undertaken to inform this request and can be provided if needed.

FIGURE 0.3 Example 1 (after): storytelling with data

# 3-levels of actions

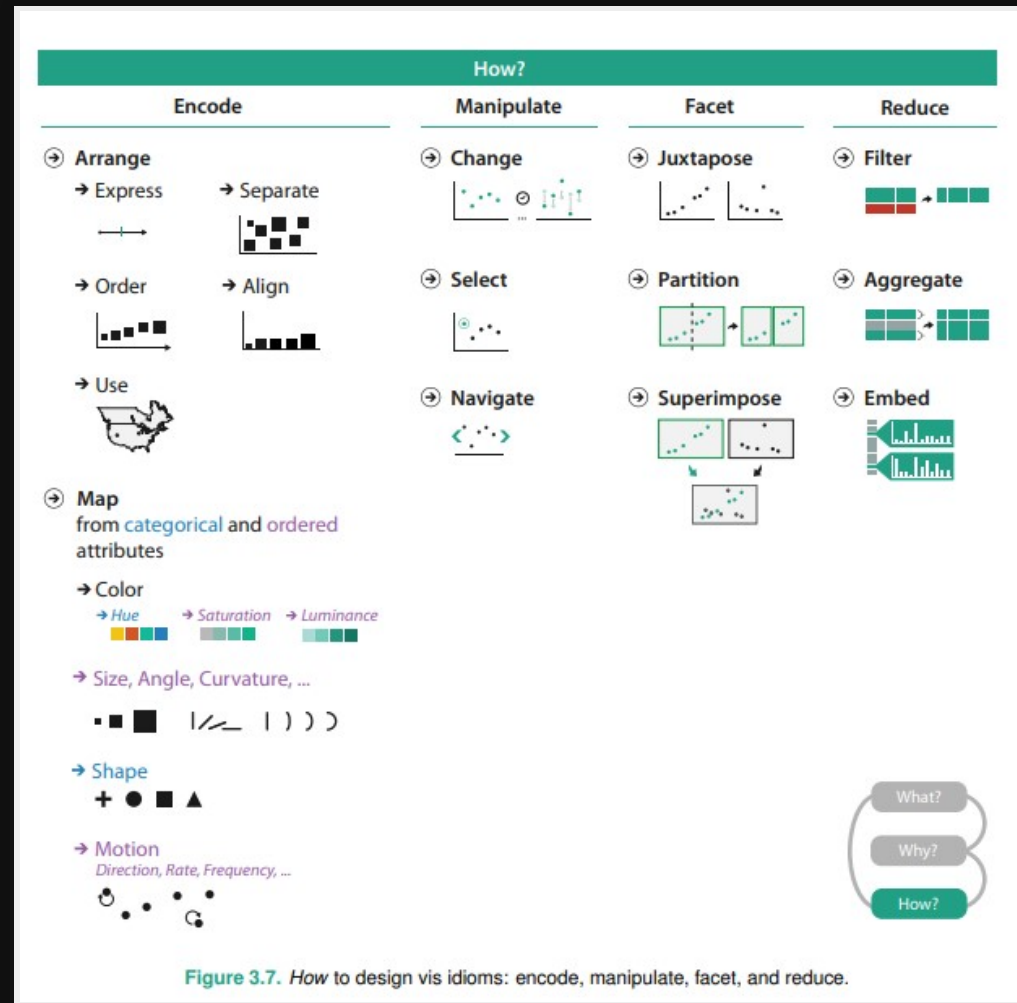


# Targets





# How: An overview



Git

# GitHub Desktop: Git GUI

The easiest is probably **GitHub Desktop**.

Document for GitHub Desktop is excellent, and you can find it **here**.

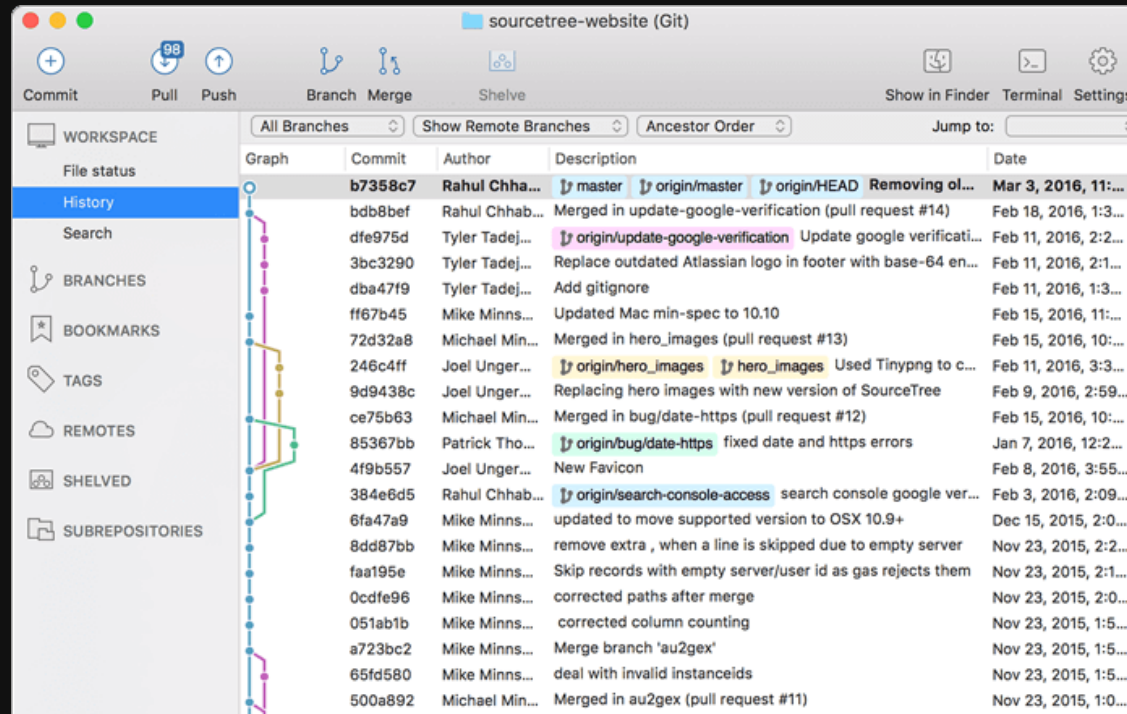
The Git functions that you need to know are probably just **clone**, **fork**, **pull**, **push** and **commit**.

GitHub desktop makes this easy as it already has a UX walkthrough designed to guide you in the setup (with Git).

I'll do a quick walkthrough on how to setup a repo from scratch and commit a change.

# Git GUI: Alternatives

I also like **Sourcetree**, which is another free Git GUI client. It has some useful functions, notably a graph view of the repo changes.



There are other Git GUIs like **TortoiseGit**, etc. What client or even command line is up to you. But no excuse in not knowing how to work with Git repos.

# GitPages

Under the **settings** tab in your repo, turn on GitHub Pages.  
You need to have an index.html file in your main repo page.  
Read up on the **docs**.


## GitHub Pages


GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

✓ Your site is published at <https://chi-loong.github.io/CSC2005/>

### Source

Your GitHub Pages site is currently being built from the master branch. [Learn more.](#)

 Branch: master ▼

 / (root) ▼

Save

### Theme Chooser

Select a theme to publish your site with a Jekyll theme. [Learn more.](#)

Choose a theme

# Questions?



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