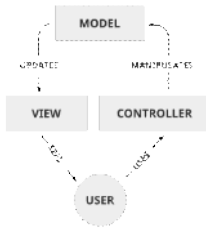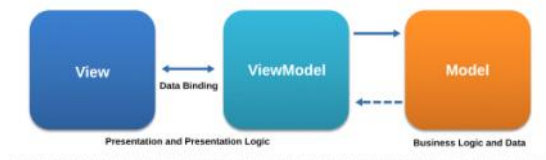# Old Management Style

MVC =

Controller links the model and view, the view only changes at the controller's discretion.

MVP is a weak wrapper around MVC.

MVVM =

View no longer depends on the model's certain defined structure. The ViewModel serves to translate any data to the required view.

MVI is a weak wrapper around MVVM to make event injection more obvious.

VIPER tries to combine all these state architectures, but badly. Vper forces them together, adding components to complement a lack of understanding, where condensing the presentation would have been more useful and extendable.

New: C[TV]*M

An architectural pattern to enable infinite composition with application specific optimization enabled between computation and storage.

Controller - Translator - View - Model.

Note the regex annotation for '[TV]*', to denote both implied isolation from the Controller/Model and to make explicit the infinitely-expansive opportunity by adding any combination of additional translators and views.
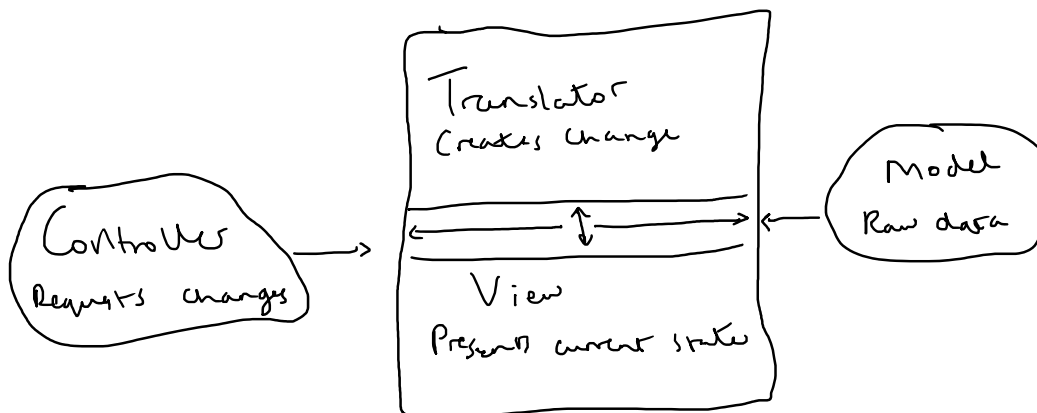
Translation and View are coupled but disconnected because infinitely many views can choose which of the infinitely many translators they wish to present.

The controller is no longer tightly coupled with the view or model.

Controllers are no longer guaranteed to be aware of every translation or view, hence only requesting changes and allowing the translators to handle appropriate propagation.

Commands were authoritative and often immediate by design.

A command would previously be like "do this".

A request is more like "x needs to do y after either n minutes or once t prerequisite task is complete".

A command is just one small part of a request. The additional data captured by using requests enables much more flexibility in optimal propagation strategies.

Completely disconnecting the model from any controlling authority also allows data to be stored using multiple models were appropriate, based on the translators and views used.

Why C[TV]*M?

Most archaic patterns are made for a digital world with mute dynamic objects. That is: for a digital world were demands have predetermined allowed origins.

Bidirectional communication has been slowly enabled, prompting the iteration attempts. Basic bidirectional comms already warrant use of C[TV]*M, but the simplicity in communication techniques has enabled less informed patterns to prevail.

Gen AI present an explosion in communication abilities. Direction and number of participants are now both dynamic by design. At this point, a better behaviour pattern is almost a must.

C[TV]*M in simple practice

Even the most basic applications are easily expressed using C[TV]*M.
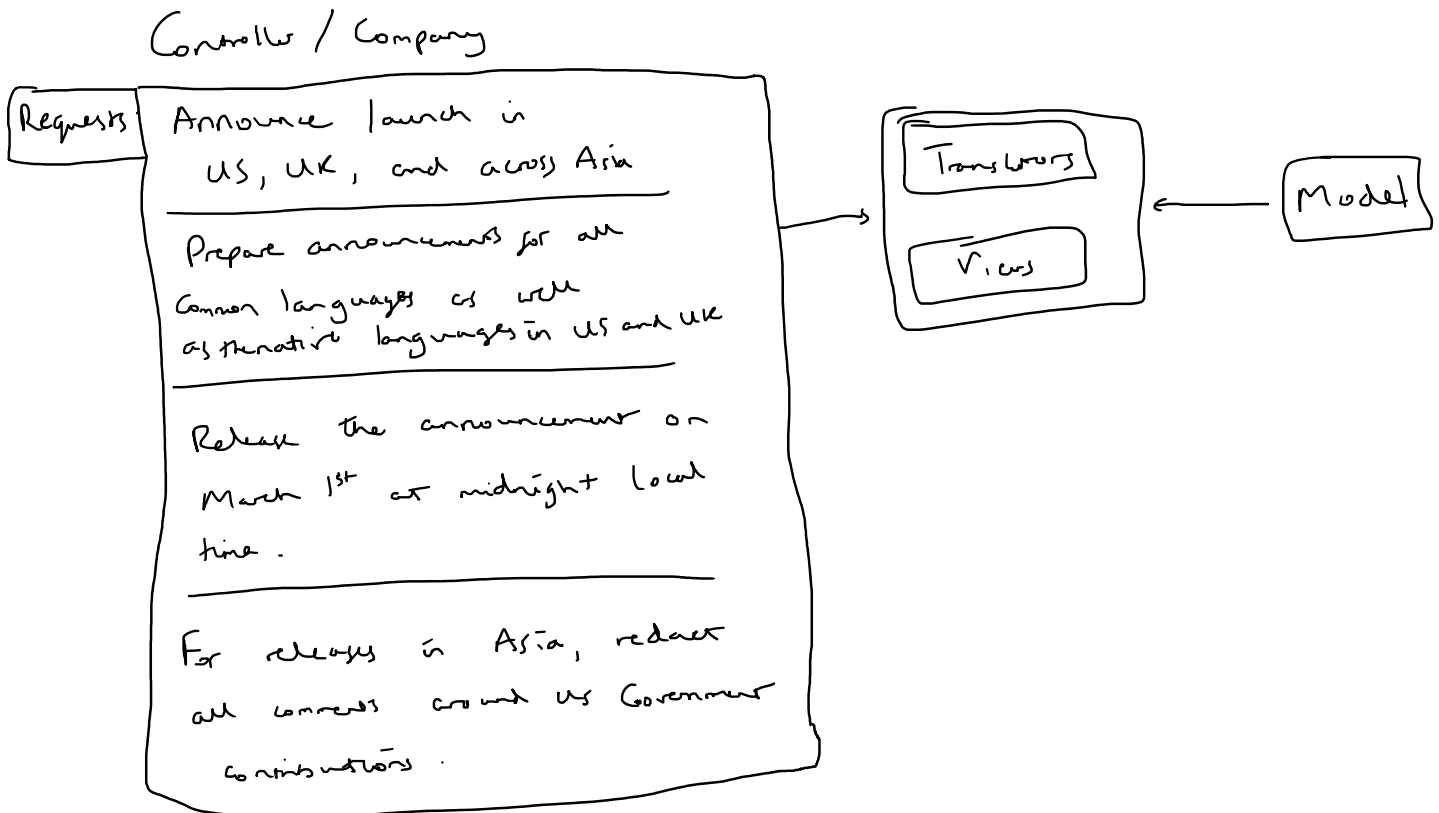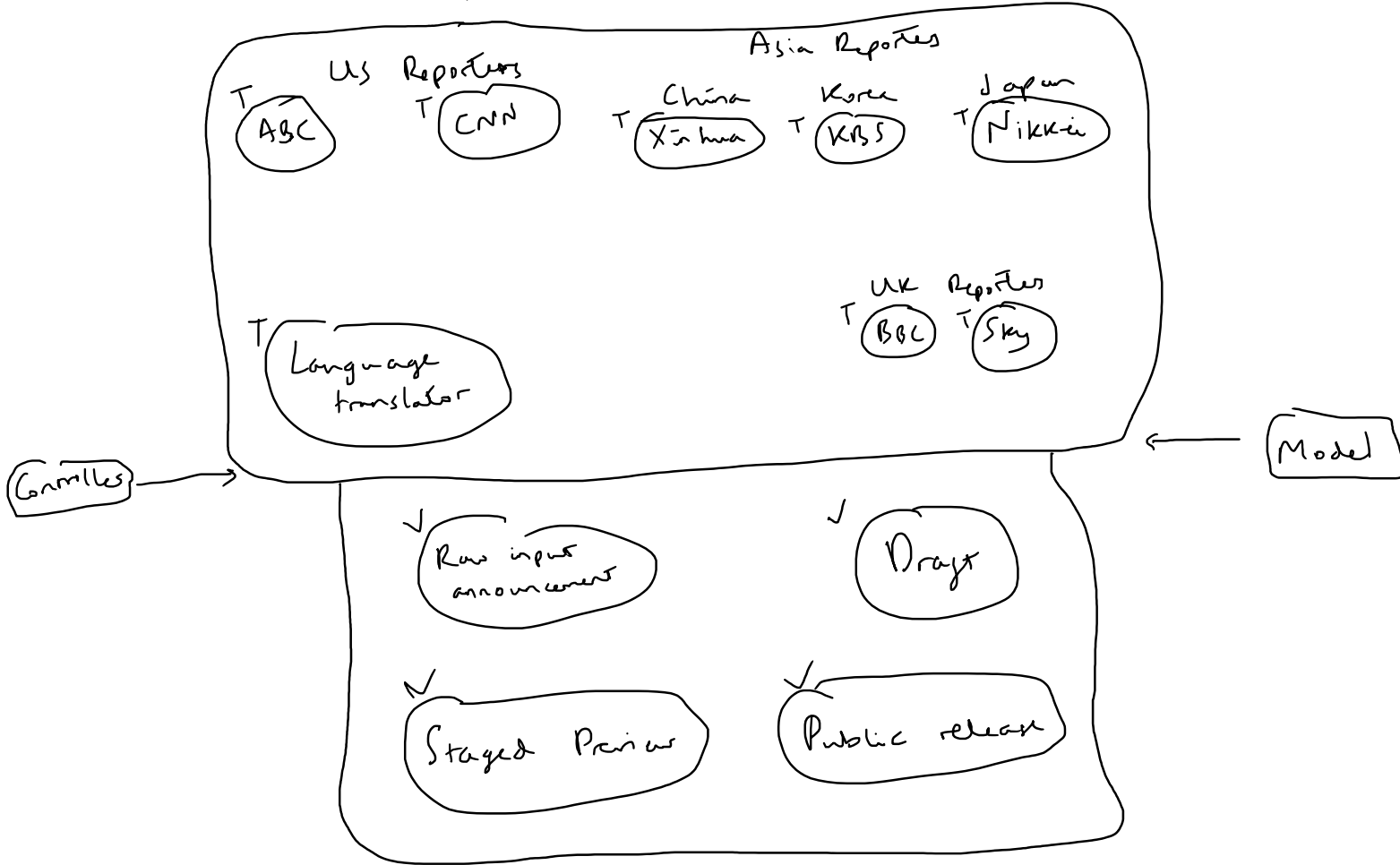
User input → View / Asset bundle renderer
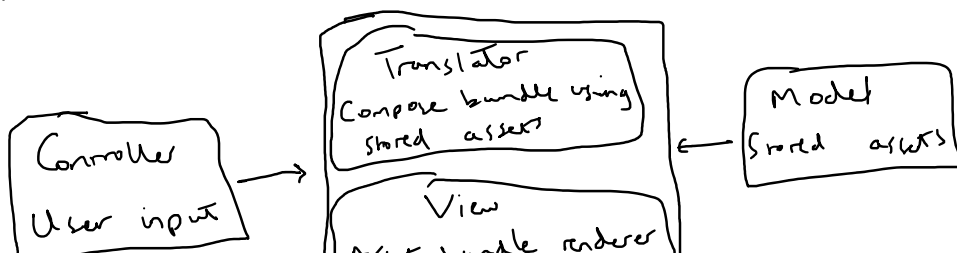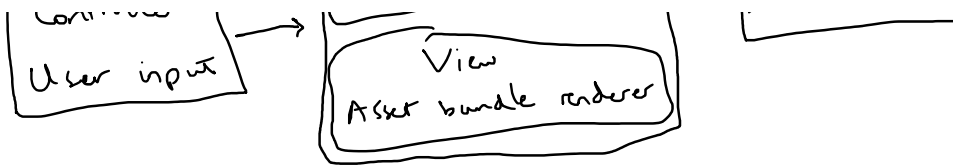
[TV]* allows multiple of either but also implies allowing none of either or both. If the model is the final asset bundle, the view can use it directly without translation. If the user wants to blindly request updates, there is no requirement for any new component. If the controller wants to make exact, authoritative changes they can eliminate translators and views and update the model directly.

C [TV]* m in real life

Sharing news across countries is a great example of $C[TV]^*m$ in action. Imagine a company has an announcement to make.

Controller / Company

Requests

Announce launch in US, UK, and across Asia
___
Prepare announcements for all common languages as well as alternative languages in US and UK
___
Release the announcement on March 1st at midnight local time.
___
For releases in Asia, redact all comments around US Government contributions.

→ Translators / Views ← Model

Translators / Views

US Reporters
- T (ABC)
- T (CNN)

Asia Reporters
- China T (Xinhua)
- Korea T (KBS)
- Japan T (Nikkei)

UK Reporters
- T (BBC)
- T (Sky)

T (Language translator)

Controller →

← Model

- ✓ Raw input announcement
- ✓ Draft
- ✓ Staged Preview
- ✓ Public release

Model

Document	Version	Status
~~ ~~~~ ~~~~ Img1 Img2	Raw	Redundant
~~ Img1 ~~~~	Draft	Finalized

Translators
Views

Controller →

←

The diagram shows a mockup layout with text lines, Img2, Img1, Icon labels, and columns labeled:

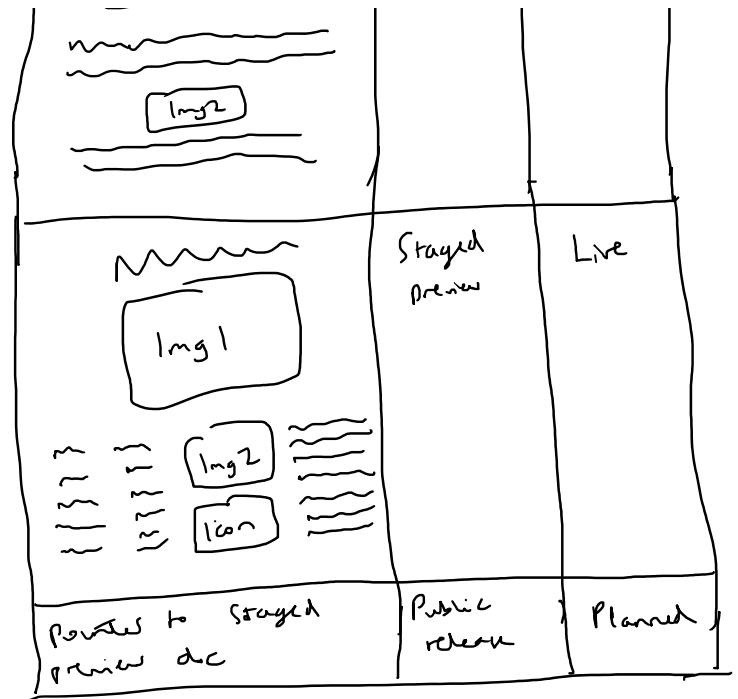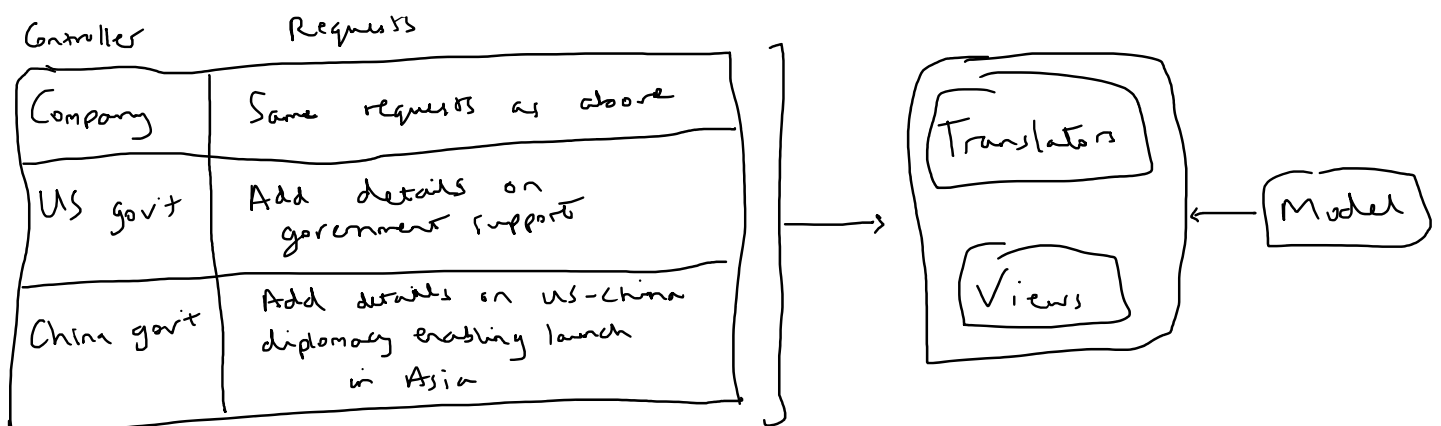|	Staged Preview	Live
Points to Staged preview doc	Public release	Planned

While there may be multiple controllers, by default all requests are treated as equal. This keeps multiple-controller systems simple to manage, since all requests are fed through the same interface.

This makes adding requests from new controller almost trivial.

Controller	Requests
Company	Same requests as above
US gov't	Add details on government support
China gov't	Add details on US-China diplomacy enabling launch in Asia

→ Translator / Views ← Model

It is possible that specific input sources will be attached to specific translators during input but that is not a requirement.

For example, government requests might be tied to a translator that adds the detail "for releases made in the government's country".

$C[TV]^*M$ is broadly extendable.

While only two examples have been presented, the same architecture pattern can be used to represent all applications, media, and modern communications.

Simple is often better, and the simplicity in $C[TV]^*M$ truly unlocks infinite potential.