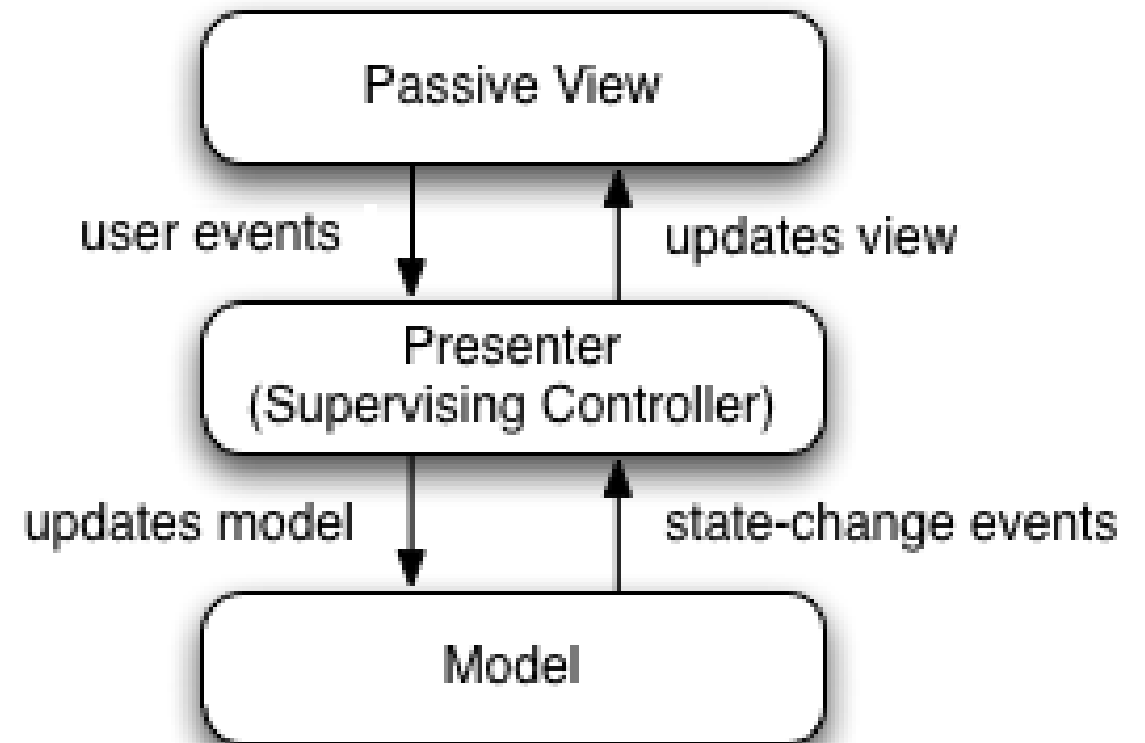


Building UIs with Spec

- Model View Presenter
- Object Oriented

The MVP pattern

- Model
- View
- Presenter

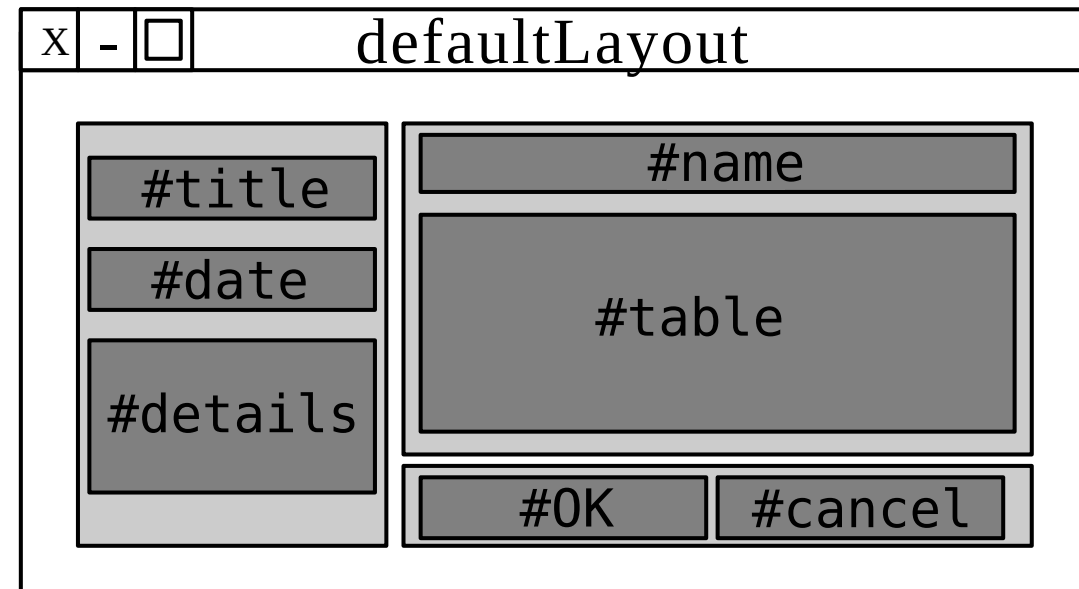


Defining a presenter

- Subclass `SpPresenter`
 - `#defaultLayout`
 - `#initializePresenters`
 - `#connectPresenter`

#defaultLayout

```
defaultLayout
^ SpBoxLayout newLeftToRight
  add: (SpBoxLayout newTopToBottom
    add: #title
    height: self toolbarHeight;
    add: #date
    height: self toolbarHeight;
    add: #details);
  add: (SpBoxLayout newTopToBottom
    add: #name
    height: self toolbarHeight;
    add: #table;
    add: (SpBoxLayout newLeftToRight
      add: #ok;
      add: #cancel));
yourself
```



#initializePresenters

```
initializePresenters
  title := self newDropList .
  name := self newDropList .
  date := self newTextInput .
  details := self newText.
  table := self newTable.
  ok := self newButton
    label:#ok;
    yourself.
  cancel := self newButton
    label:#cancel;
    yourself.
```

X - □ initializePresenters				
<input type="text"/>		<input type="text"/>		
<input type="text" value="01/01/1970"/>		<input type="text"/>		
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>		<input type="text"/>	<input type="text"/>	<input type="text"/>
		<input type="button" value="ok"/>		<input type="button" value="cancel"/>

#connectPresenters

```
connectPresenters
    ok action: [
        self inform: 'Ok'
    ].
    cancel action: [
        self inform: 'Cancel'
    ].
```

connectPresenters				
<input type="text"/>	<input type="text" value="v"/>	<input type="text"/>		
<input type="text" value="01/01/1970"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="button" value="ok"/>		<input type="button" value="cancel"/>		

Binding the model

```
model: aModel
  model := aModel.
  self modelChanged.
```

```
modelChanged
    self fillWidgetWithModel
```

```
fillWidgetWithModel
  title selectedItem: model title.
  name selectedItem: model name.
  date text: model birthDate.
  details text: model details.
```

[illegible]