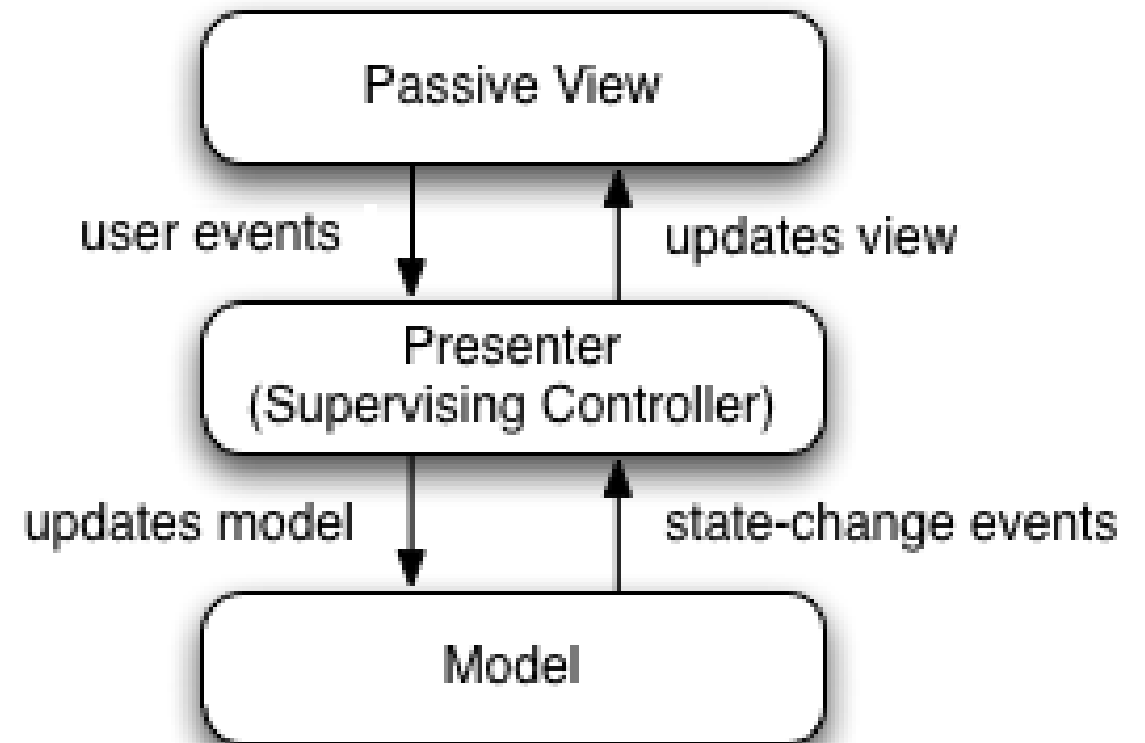


Building UIs with Spec

- Model View Presenter
- Object Oriented

The MVP pattern

- Model
- View
- Presenter



Defining a presenter

- Subclass `SpPresenter`
- Often 1 instance variable per internal widget
- Overrides methods:
 - `#defaultLayout`
 - `#initializePresenters`
 - `#connectPresenter`

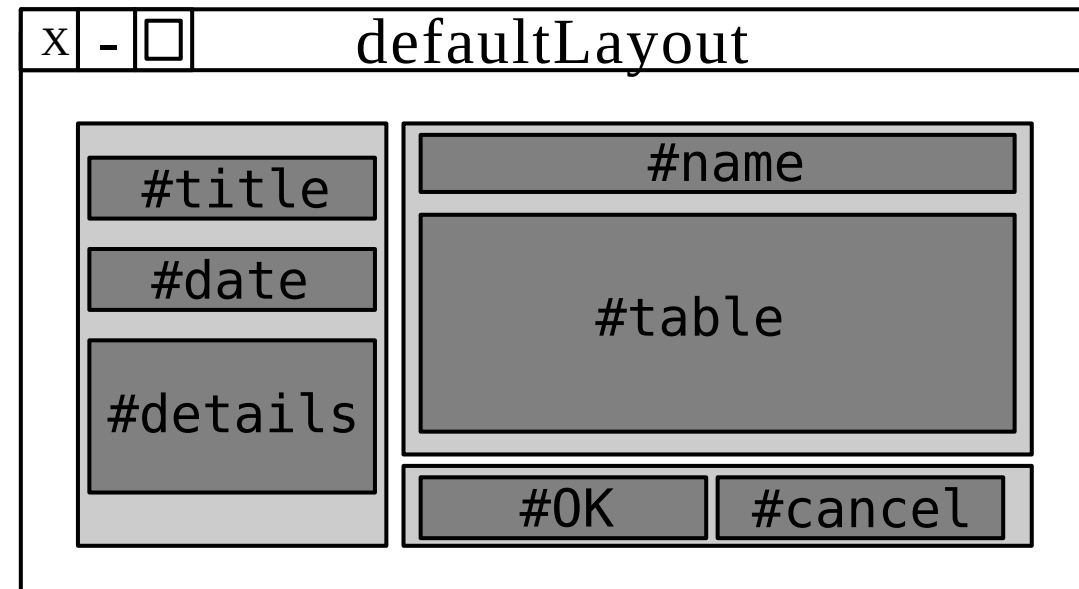
#initializePresenters

```
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"/>

#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
```



#connectPresenters

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

connectPresenters				
<input type="text"/>	v	<input type="text"/>		
01/01/1970				
<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.
```

X	-	<input type="checkbox"/>	set model			
Ms		v	Augusto, Marcelo			v
10/12/1978						
blablabla						
			ok		cancel	