

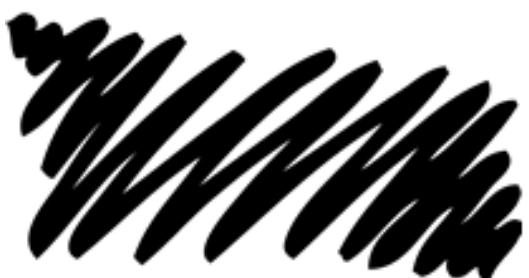
XAML

```
<Window>

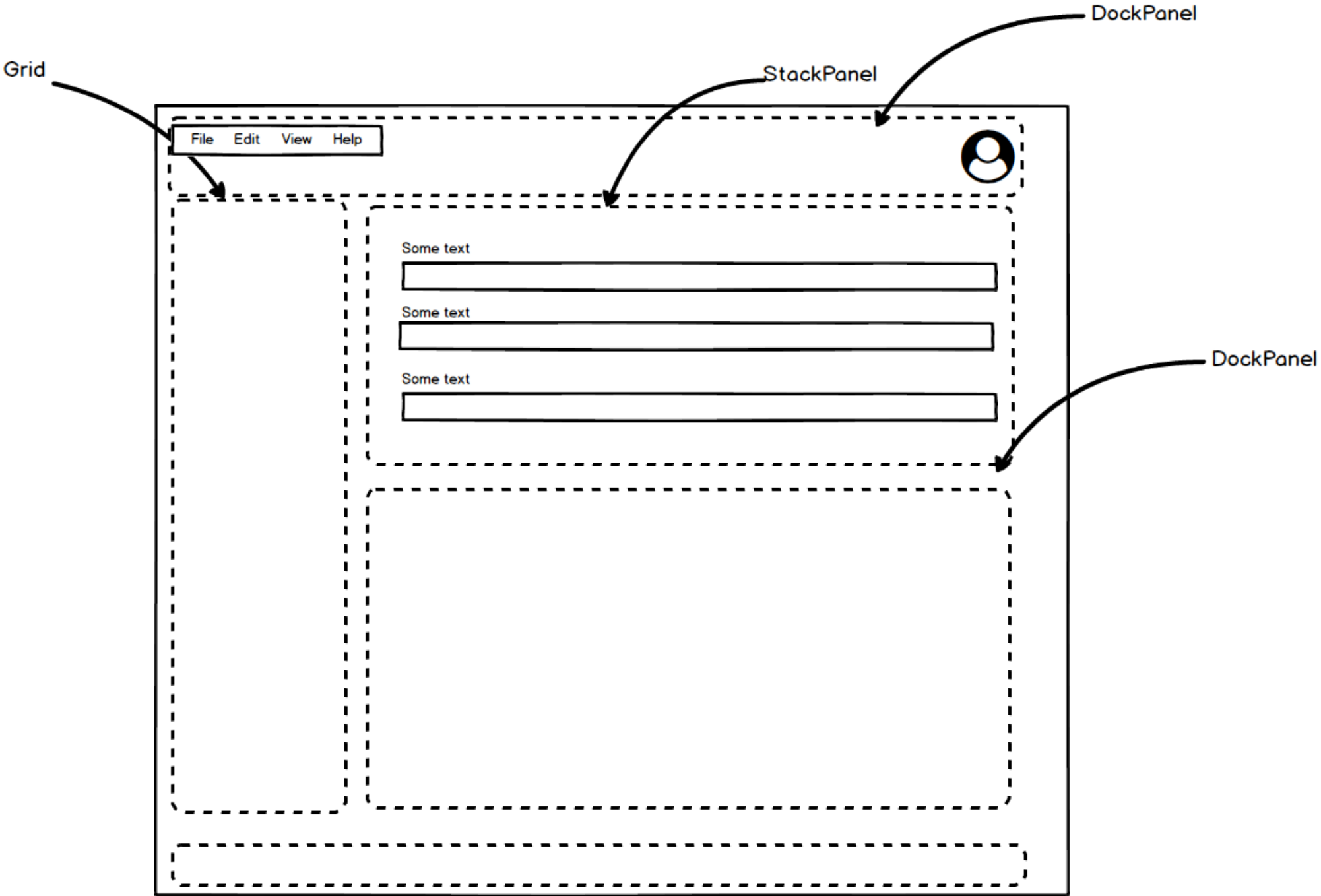
  <Grid>
    <Button Title="Hello" />
  </Grid>

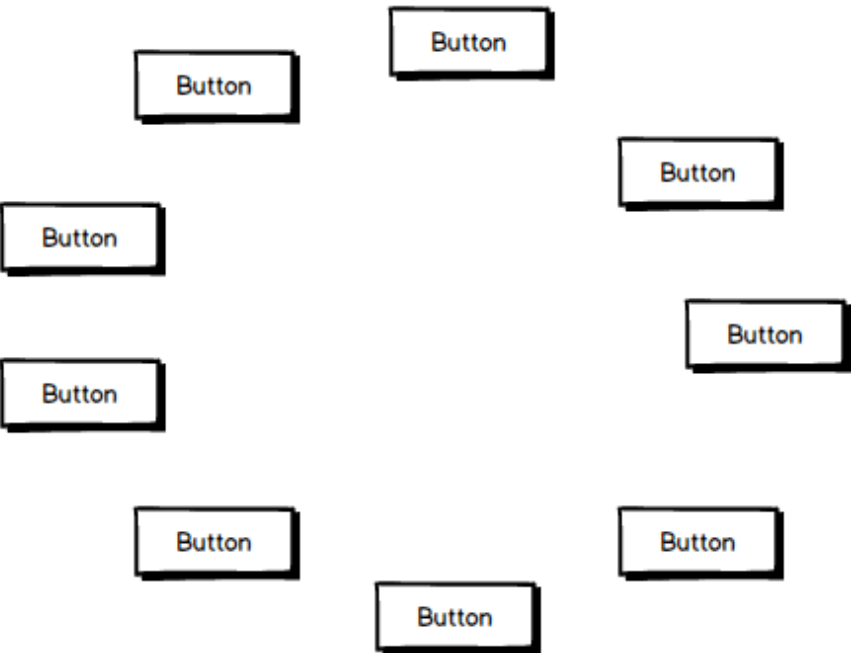
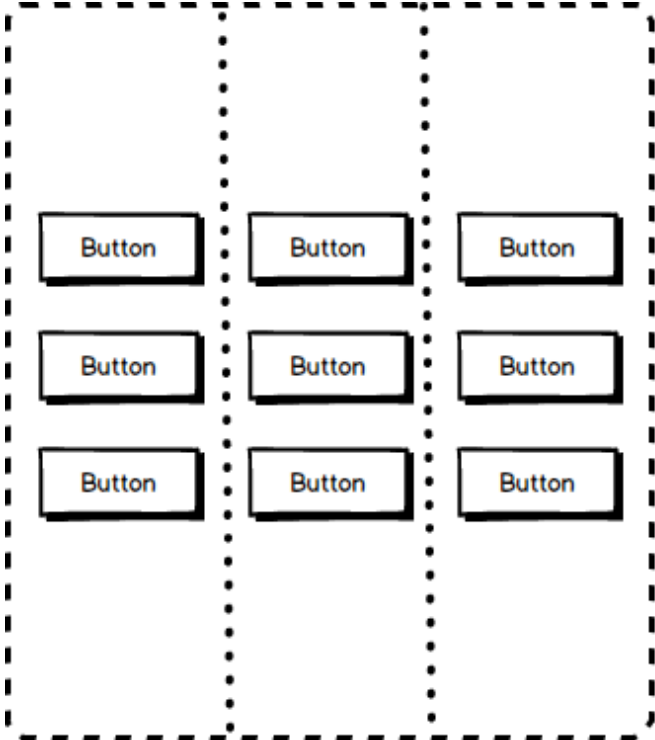
</Window>
```

```
Window window1 = new Windows() { Title = "Hello Title" };
Grid grid1 = new Grid();
grid1.Children.Add(new Button());
grid1.Children.Add(new Button());
grid1.Children.Add(new Button());
window1.Children.Add(grid1);
```

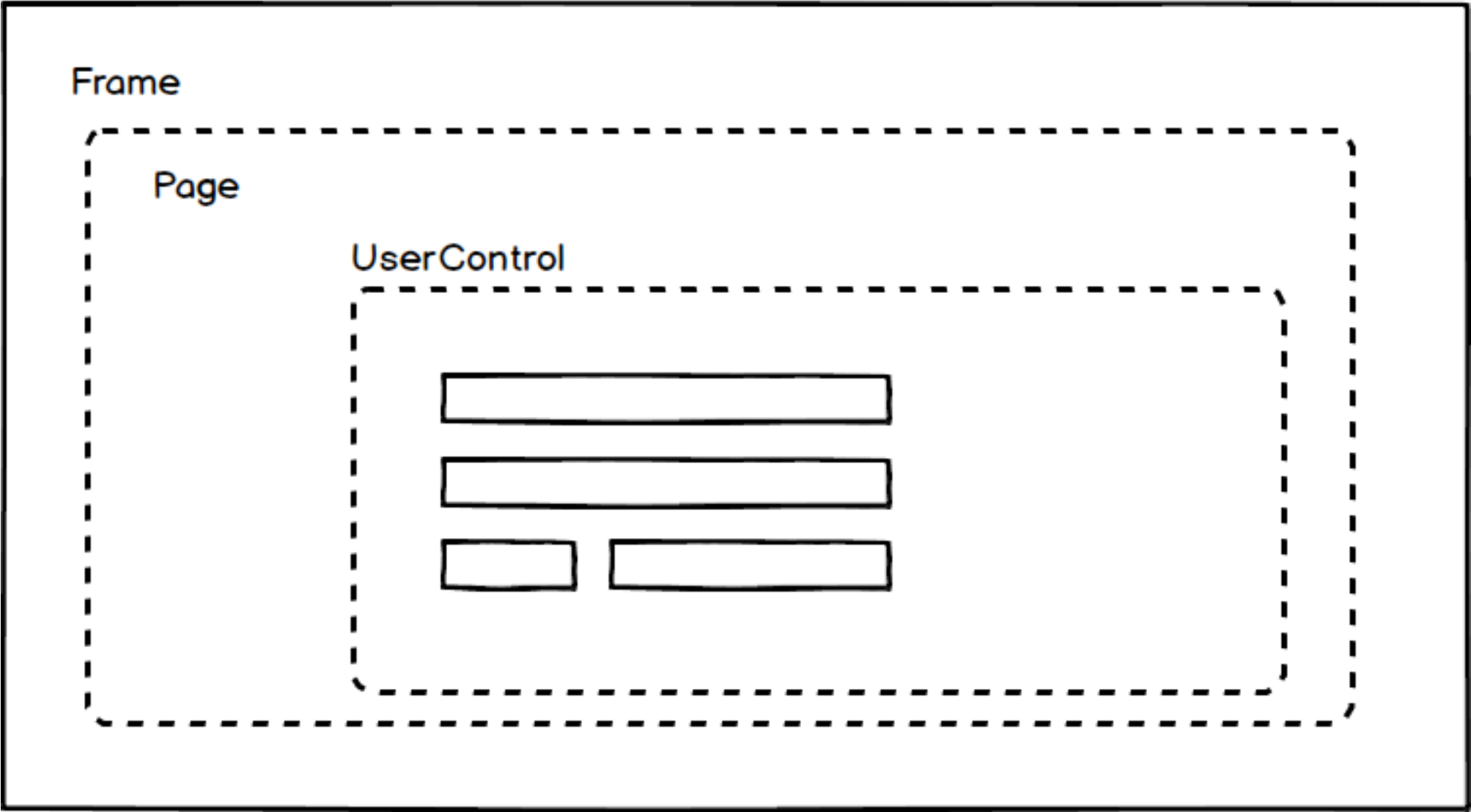


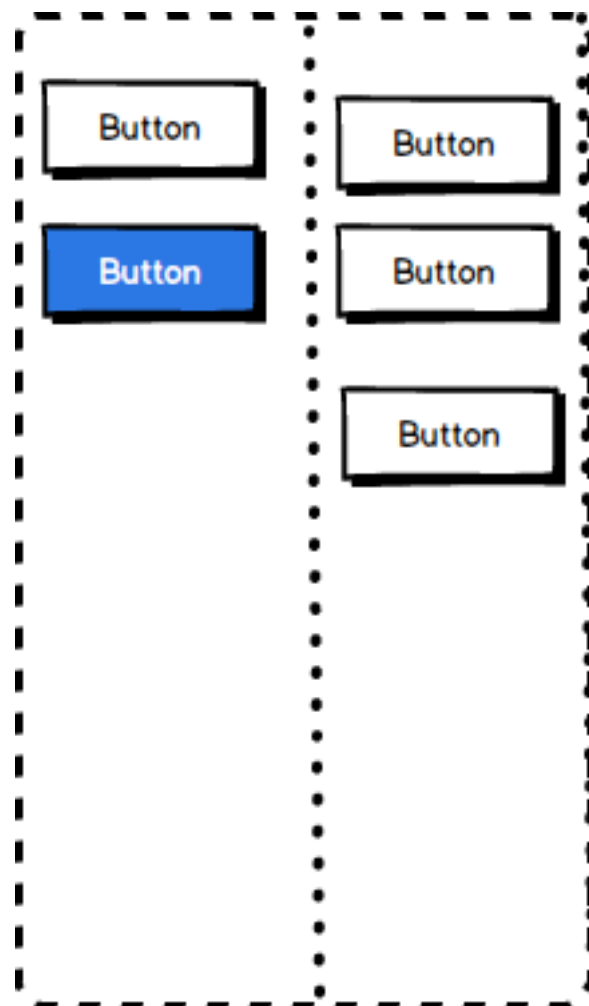
$$\text{XAML} = \underbrace{\text{XML}}_{\text{markup}} + \underbrace{\{\}}_{\text{markup extensions}}$$



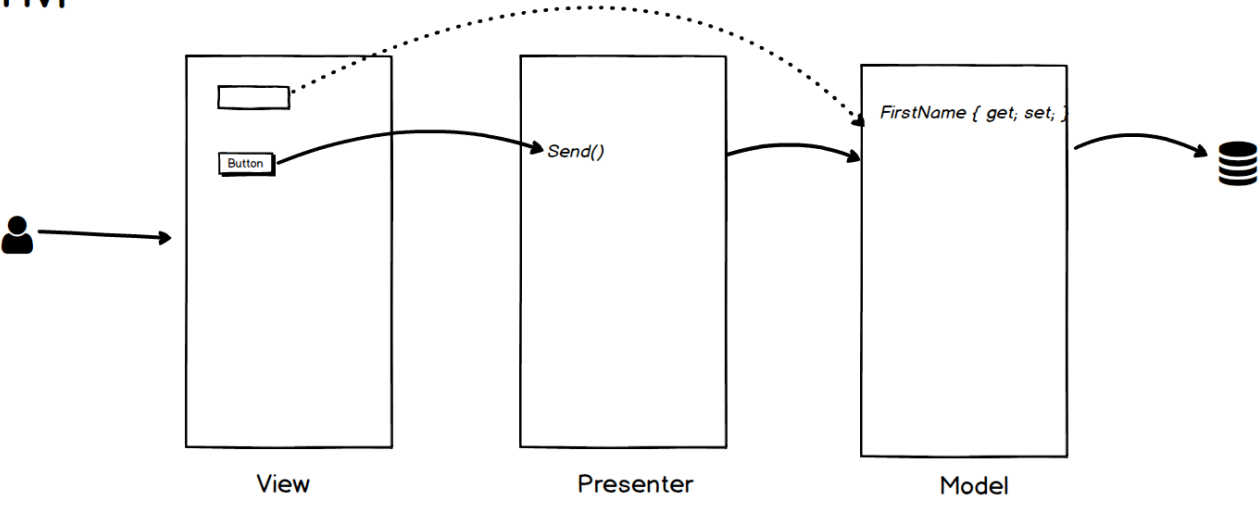


Window

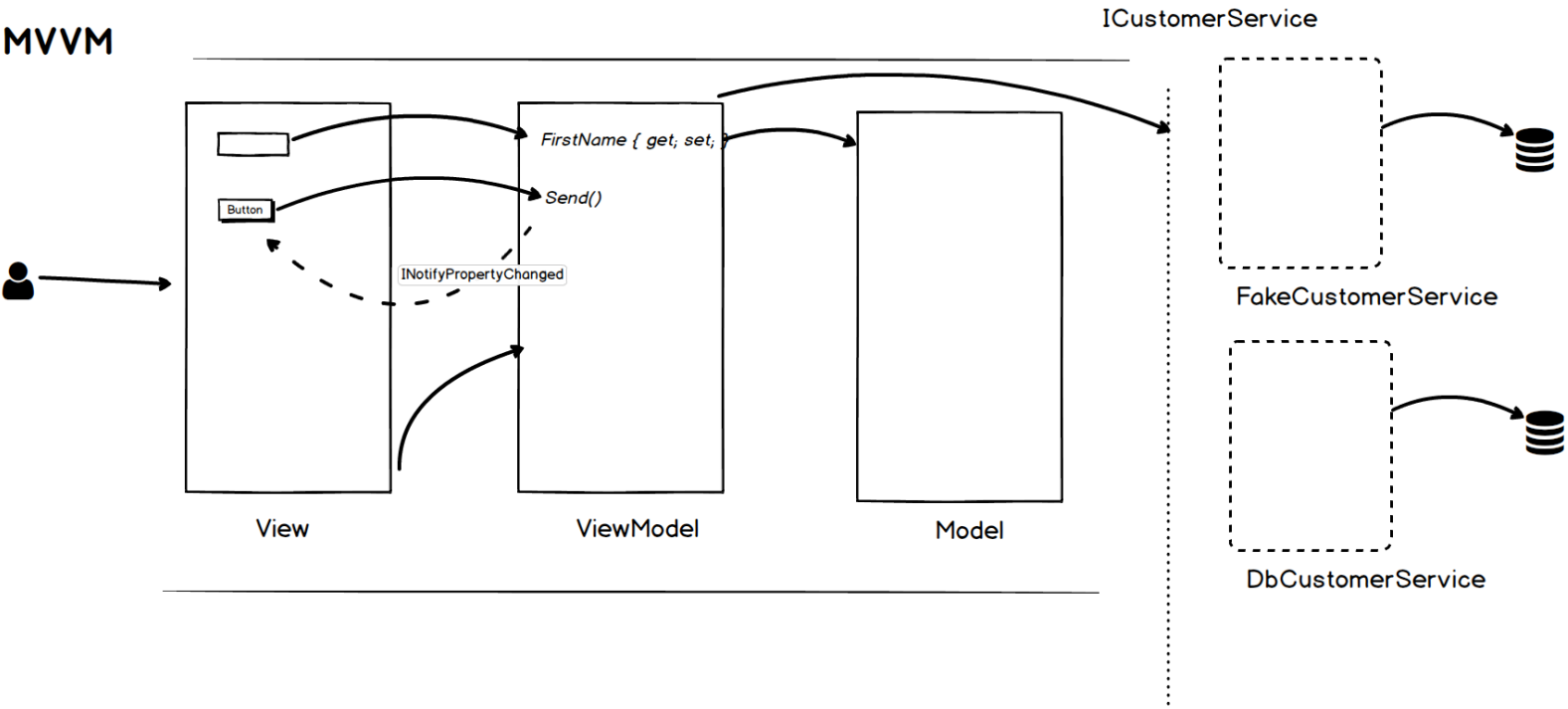




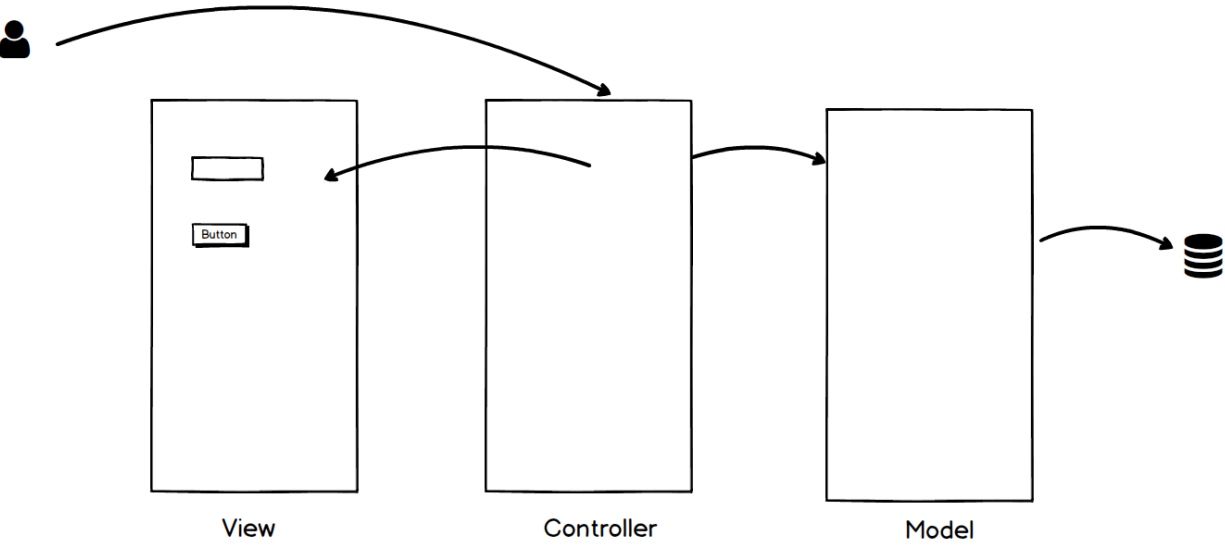
MVP



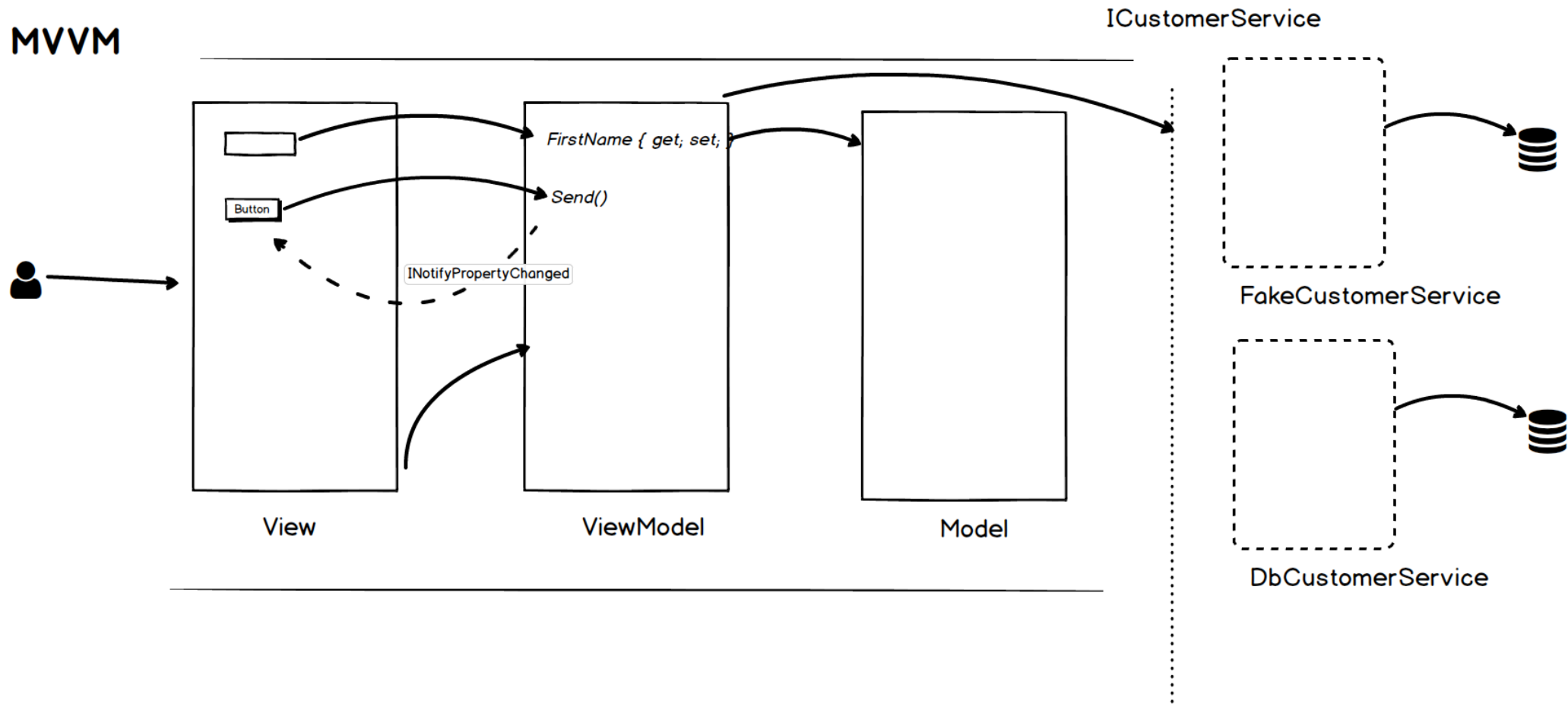
MVVM



MVC



MVVM



```
interface ICommand
```

```
    void Execute(object parameter)
```

```
    bool CanExecute(object parameter)
```

```
class SendCommand
```

```
    Execute() { }
```


Window Name

FirstName
Marcin

LastName

Blue

Save

Customer

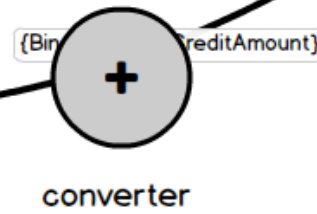
FirstName

LastName

CreditAmount

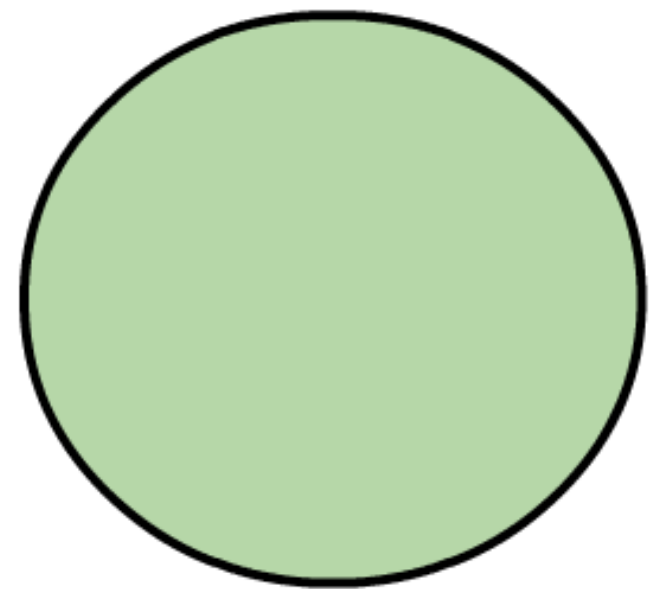
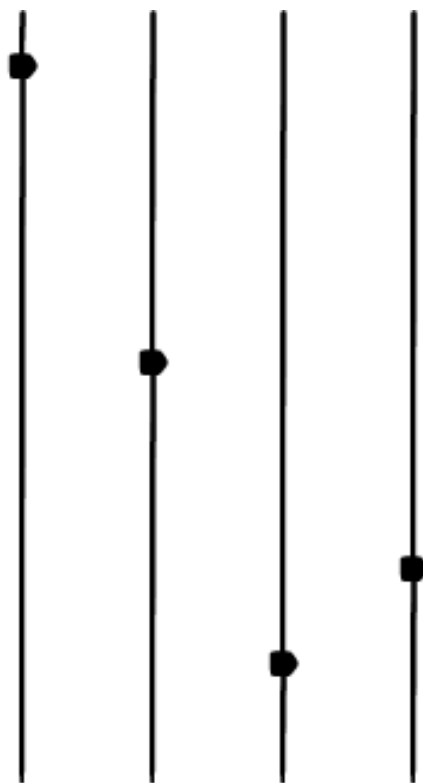
Lat

Lng



customer.FirstName = "John";

TextBox1.Text = customer.FirstName;



<Ellipse Fill = {Binding Color} />

Window Name

FirstName

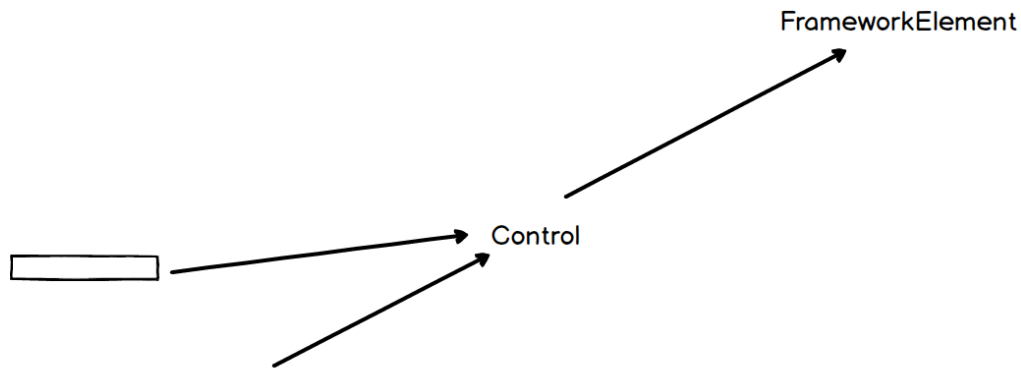
Marcin

LastName

Save

52.43 21.03

Send



ContentControl
.Content

ItemsControl
.ItemsSource
.ItemTemplate

Panel (LayoutControl)

Label

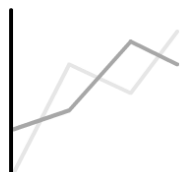
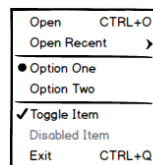
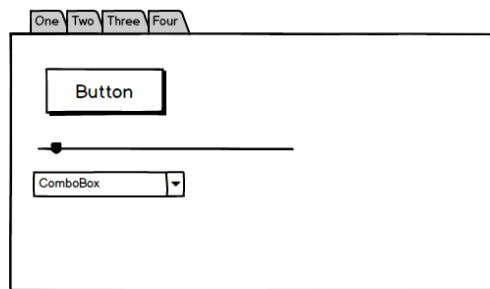
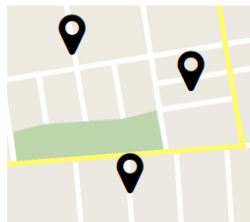
Button



Item One
Item Two
Item Three

ComboBox

Name (job title)	Age	Nickname	Employee
Giacomo Gulizzoni Founder & CEO	40	Peldi	<input type="radio"/>
Marco Botton Tuttofare	38		<input checked="" type="checkbox"/>
Mariah Maclochlán Better Half	41	Potata	<input type="checkbox"/>
Valerie Liberty Head Chef	:)	Val	<input checked="" type="checkbox"/>
Data Grid Docs			<input type="checkbox"/>



Customers

Orders

Name (job title) ▲	Age ▼	Nickname	Employee ▼
Giacomo Guilizzoni Founder & CEO	40	Peldi	☉
Marco Botton Tuttofare	38		☑
Mariah MacLachlan Better Half	41	Patata	☐
Valerie Liberty Head Chef	:)	Val	☑
Data Grid Docs			☐

Some text

Some text

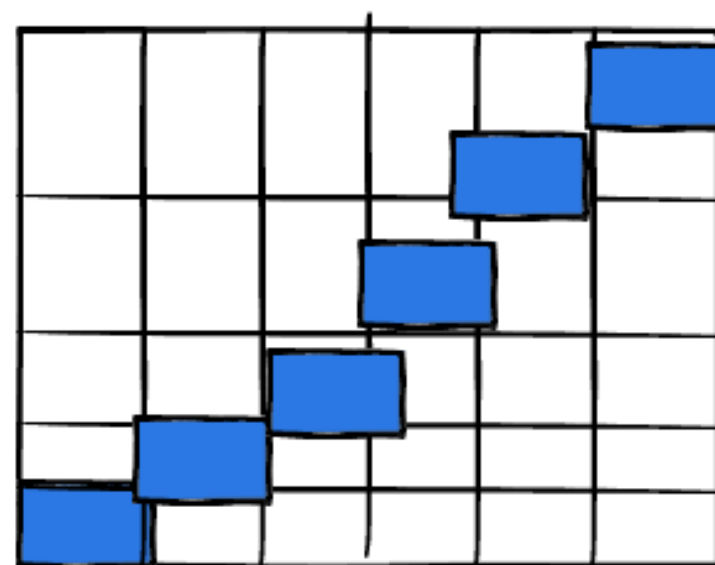
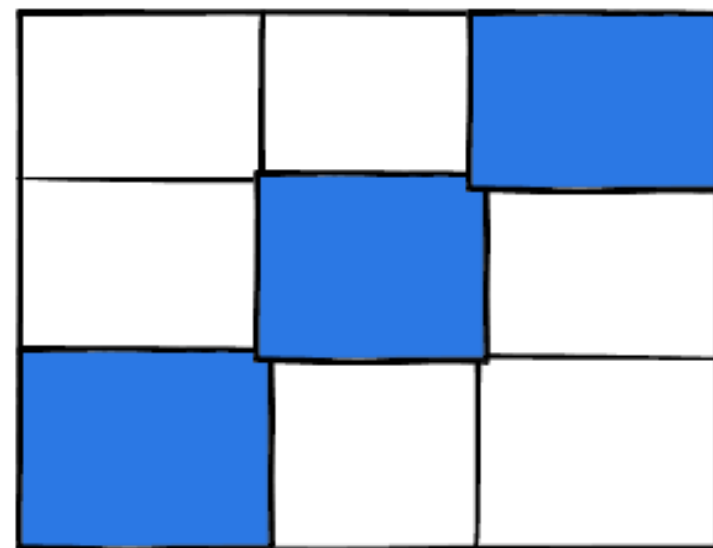
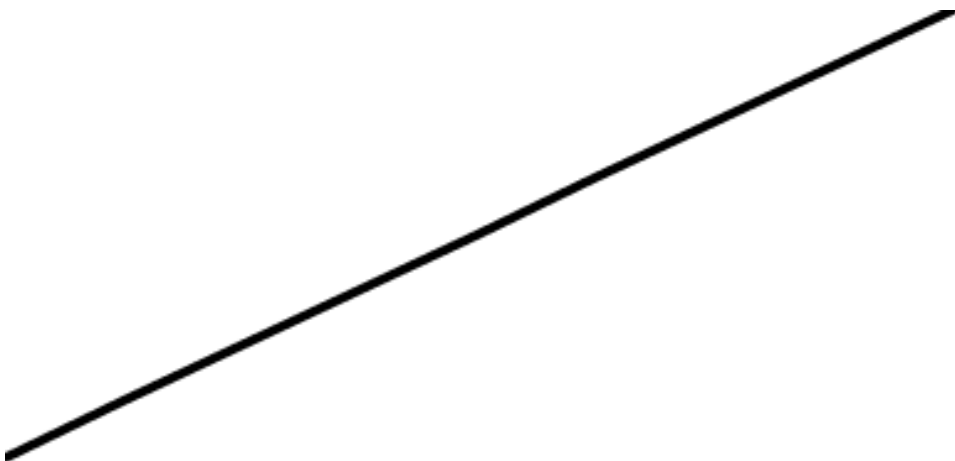
Some text



database



memory



Customers

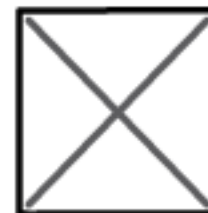
Orders

Name (job title) ▲	Age ◆	Nickname	Employee ▼
Giacomo Guilizzoni Founder & CEO	40	Peldi	<input type="radio"/>
Marco Botton Tuttofare	38		<input checked="" type="checkbox"/>
Mariah MacLachlan Better Half	41	Patata	<input type="checkbox"/>
Valerie Liberty Head Chef	:)	Val	<input checked="" type="checkbox"/>
Data Grid Docs			<input type="checkbox"/>

Some text

Some text

Some text



Window Name

Name (job title)	Age	Nickname	Employee
Giacomo Guilizzoni Founder & CEO	40	Peldi	☉
Marco Botton Tuttofare	38		☑
	41	Patata	☐

Window Name

SqlDependency

SQL Server

Window Name

Name (job title)	Age	Nickname	Employee
Giacomo Guilizzoni Founder & CEO	40	Peldi	☉
Marco Botton Tuttofare	38		☑
	41	Patata	☐

Window Name

WebSocket

SqlDependency

SQL Server

SignalR (websocket)

A Web Page

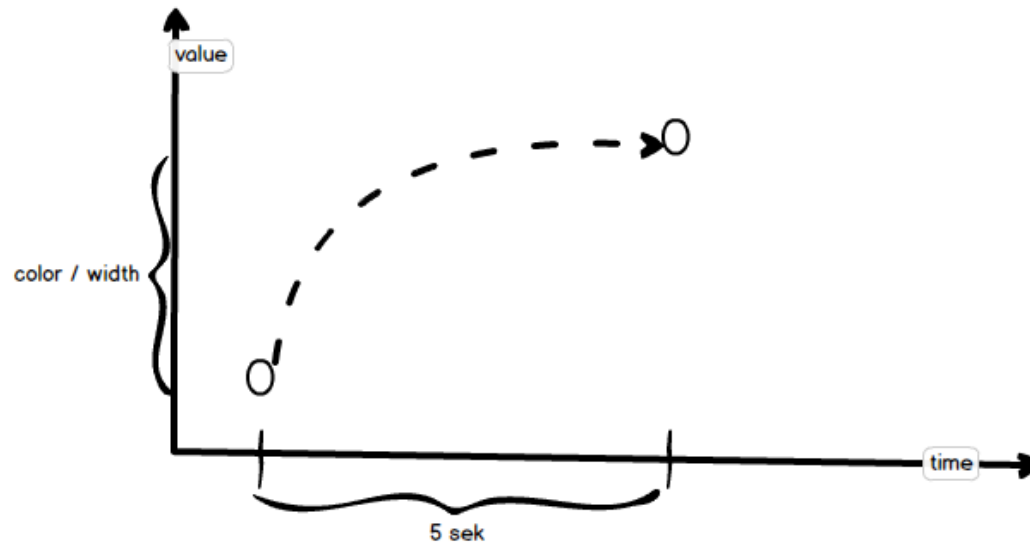
⬅ ➡ ✕ 🏠

http://

🔍

Name (job title)	Age	Nickname	Employee
Giacomo Guilizzoni Founder & CEO	40	Peldi	☉
Marco Botton Tuttofare	38		☑
Mariah MacLachlan Better Half	41	Patata	☐
		;) Val	☑

<https://docs.microsoft.com/pl-pl/dotnet/framework/data/adonet/sql/detecting-changes-with-sqldependency>



{type}Animation

DoubleAnimation From To

ColorAnimation