

# Displaying Views Using View Composition

---



**Brian Lagunas**

INFRAGISTICS - MICROSOFT MVP

@brianlagunas | <https://brianlagunas.com>



# Agenda



**What Is a View?**

**Understanding View Composition**

**What Is View Discovery?**

**What Is View Injection?**



# What Is a View?



**Portion of the UI**



FILE

HOME

New Email

Delete

Reply

Reply All

Forward

Unread\Read

Categorize

Follow Up

New

Delete

Respond

Tags

Mail

Personal Folders

Inbox

Drafts

Sent Items

Deleted Items

Search Inbox

By Date

Newest

Today

Margaret Jones

RE: Graphic Designer Cover Letter

02/13/2018

Barbara Bailey

RE: Sample Cover Letter Email

02/13/2018

Yesterday

Tue 02/13/2018 06:55 PM

Barbara Bailey

RE: Sample Cover Letter Email

To: [davids@demo.infragistics.com](mailto:davids@demo.infragistics.com)

Cc: [bobbyj@demo.infragistics.com](mailto:bobbyj@demo.infragistics.com); [maryh@demo.infragistics.com](mailto:maryh@demo.infragistics.com)

Red Category

Hi David,

The letter is exactly what I needed.

Thanks!

Barbara Bailey

Visual Designer | Infragistics

[barbarab@demo.infragistics.com](mailto:barbarab@demo.infragistics.com)

From: [davids@demo.infragistics.com](mailto:davids@demo.infragistics.com)

Sent: Thursday, January 23, 2014 9:01 AM

To: [bobbyj@demo.infragistics.com](mailto:bobbyj@demo.infragistics.com); [maryh@demo.infragistics.com](mailto:maryh@demo.infragistics.com); [barbarab@demo.infragistics.com](mailto:barbarab@demo.infragistics.com);

Subject: Sample Cover Letter Email

Hi All,

Here is the **Sample Cover Letter Email** we were talking about today:





Dear Mr. Adams,

I'm submitting an application for the editorial position you advertised on SuperJobs on September 10.

I've spent the last year and a half working full-time as a writer and editor for a publishing company that specializes in educational content. During that time, I've logged thousands of hours doing everything related to the editorial process, including copy editing, proofreading, content entry, and quality assurance. I currently manage a team of over 40 freelance writers who work on a variety of different subjects, and I ensure that the quality of every submission meets our high editorial standards. I'm also very familiar with English grammar and usage and have no

Barbara Bailey

HR



Items: 3

ALL FOLDERS ARE UP TO DATE

CONNECTED TO: DEMO SERVER



# What Is a View?



Portion of the UI

View = UserControl

Can be made up of multiple views  
(Composite View)

Multiple instances



# Demo



## Creating a View



# View Composition

## Constructing a View

Made up of many visual elements

Displayed in Regions

## Approaches

- View Discovery
- View Injection



# View Discovery



**Views added automatically**

**Region looks for view types**

**No explicit control**

**Registers with the RegionManager**





# Using View Discovery

```
_regionManager.RegisterViewWithRegion("RegionName", typeof(ViewType));
```



# Demo



[View Discovery](#)



# View Injection



## **Views controlled programmatically**

- Add / Remove views

## **More explicit control**

- Activate / Deactivate views

**Region must exist before injecting view**



# Using View Injection

```
Iregion region = _regionManager.Regions["RegionName"];
```

```
region.Add(viewInstance);
```

```
region.Remove(viewInstance);
```

```
region.Activate(viewInstance);
```

```
region.Deactivate(viewInstance);
```



# Demo



## View Injection



# Summary



**What is a View?**

**Understanding View Composition**

**What is View Discovery?**

**What is View Injection?**

