



**Fast-Report**  
Open-Source

# หัวข้อบรรยาย

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# Fast-Report คืออะไร

Tools ที่จะมาช่วยเราในการออกรายงานได้ ฟรี ง่าย และรวดเร็วขึ้น

Open source report generator สำหรับ

- .NET 6
- .NET Core
- .NET Framework.

สามารถใช้ได้กับ

- MVC
- Web API
- Console Applications

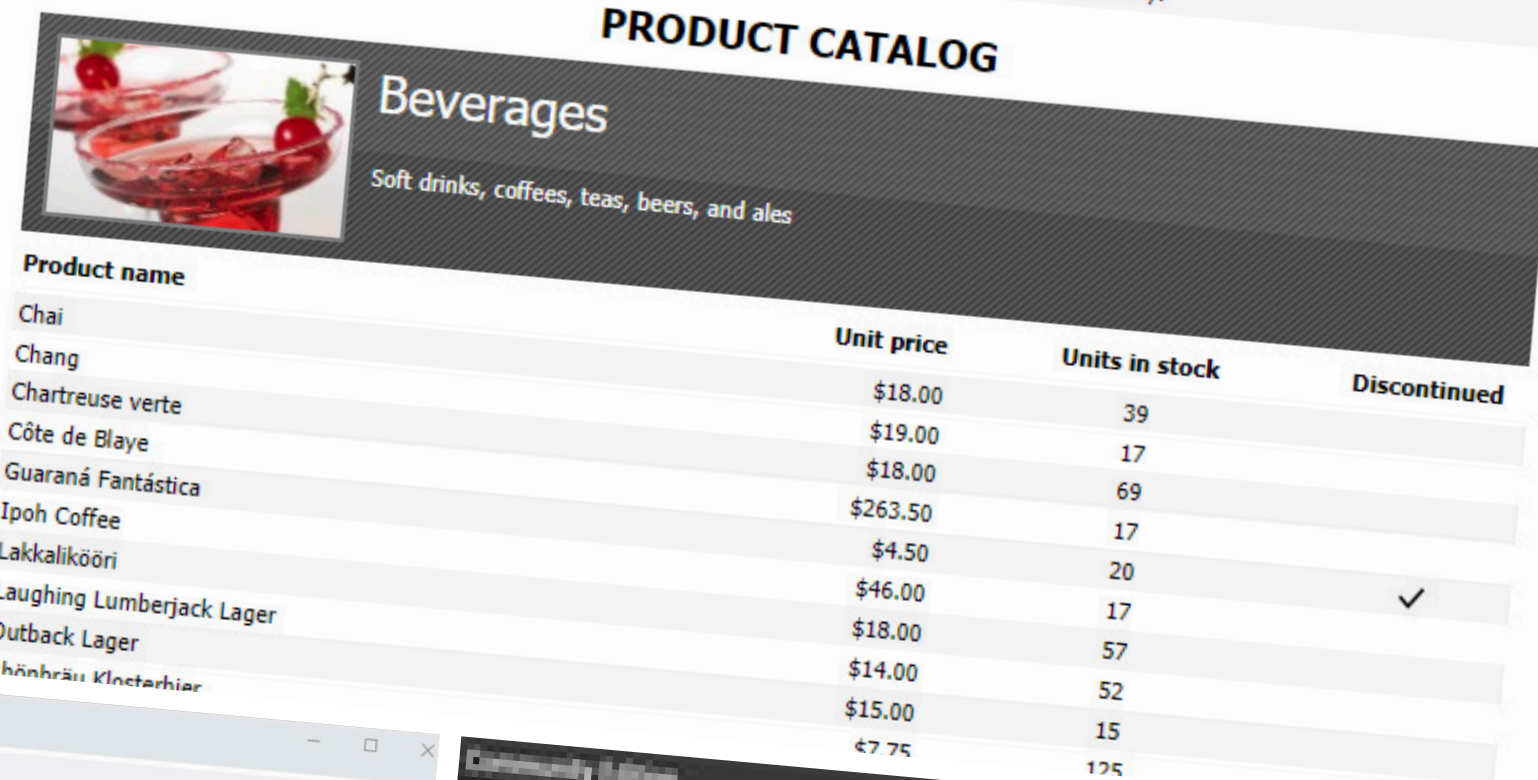
rt, 2-in-1

marks




links, Outline, TOC)

ips

Demonstrates master-detail report. To create it:  
- go to "Report|Configure Bands..." menu;  
- select the existing data band;  
- press the "Add" button and select the "Data" band - this will add a data band to existing one;  
- return to the report page, doubleclick each data band and set its datasource.  
Note: if you have defined the relation between master and detail tables, FastReport will use it automatically.

PRODUCT CATALOG			
 Beverages Soft drinks, coffees, teas, beers, and ales			
Product name	Unit price	Units in stock	Discontinued
Chai	\$18.00	39	
Chang	\$19.00	17	
Chartreuse verte	\$18.00	69	
Côte de Blaye	\$263.50	17	
Guaraná Fantástica	\$4.50	20	
Ipoh Coffee	\$46.00	17	✓
Lakkalikööri	\$18.00	57	
Laughing Lumberjack Lager	\$14.00	52	
Outback Lager	\$15.00	15	
Phönix Knechtchen	€7.75	125	

Demonstrates simple list report. To create it:  
- go to "Data" menu and select "Choose Report Data..." item to select datasource;  
- go to "Report|Configure Bands..." menu to create the band structure;  
- return to the report page, doubleclick the data band to show its editor;  
- choose the datasource;  
- drag data from the Data Dictionary window to the band.

EMPLOYEES	
<b>Andrew Fuller</b>	
Hire date:	8/14/2009
Birth date:	Saturday, February 19, 1972
City:	Tacoma
Address:	908 W. Capital Way
Phone:	(206) 555-9482
Notes:	Andrew received his BTS commercial in 1994 and a Ph.D. in international marketing from the University of Dallas in 2001. He is fluent in French and I
	
<b>Anne Dodsworth</b>	
Hire date:	11/15/2011
Birth date:	Monday, January 27, 1986
City:	London
Address:	7 Houndstooth Rd.
Phone:	(71) 555-4444
Notes:	Anne has a BA degree in English from St. Lawrence College. She is fluent in French and German.
	
<b>Janet Leverling</b>	
Hire date:	4/1/2009
Birth date:	Tuesday, August 30, 1983
City:	Kirkland
Address:	722 M...
	

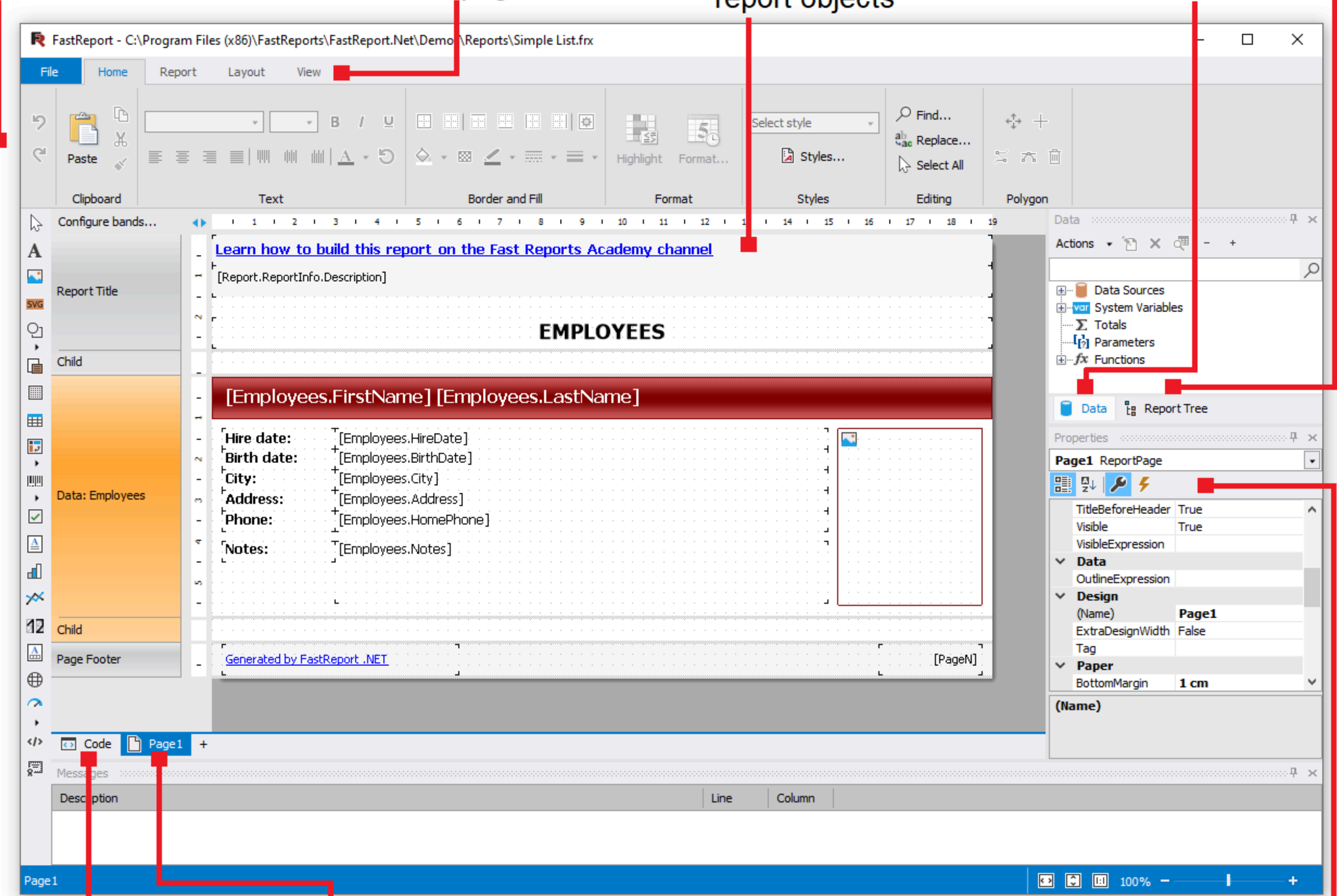
EMPLOYEES	
[Employee1 (Employee)] [Employee2 (Employee)]	
First Name	[Employee1 (Employee)]
Last Name	[Employee2 (Employee)]
Address	[Employee3 (Employee)]
City	[Employee4 (Employee)]
State	[Employee5 (Employee)]
Country	[Employee6 (Employee)]
Postal Code	[Employee7 (Employee)]
Phone	[Employee8 (Employee)]
Fax	[Employee9 (Employee)]
Email	[Employee10 (Employee)]
Notes	[Employee11 (Employee)]
Photo	[Employee12 (Employee)]

Ribbon with shortcuts

Ribbon pages

Bands and report objects

Report tree window  
Data window



# Report Designer

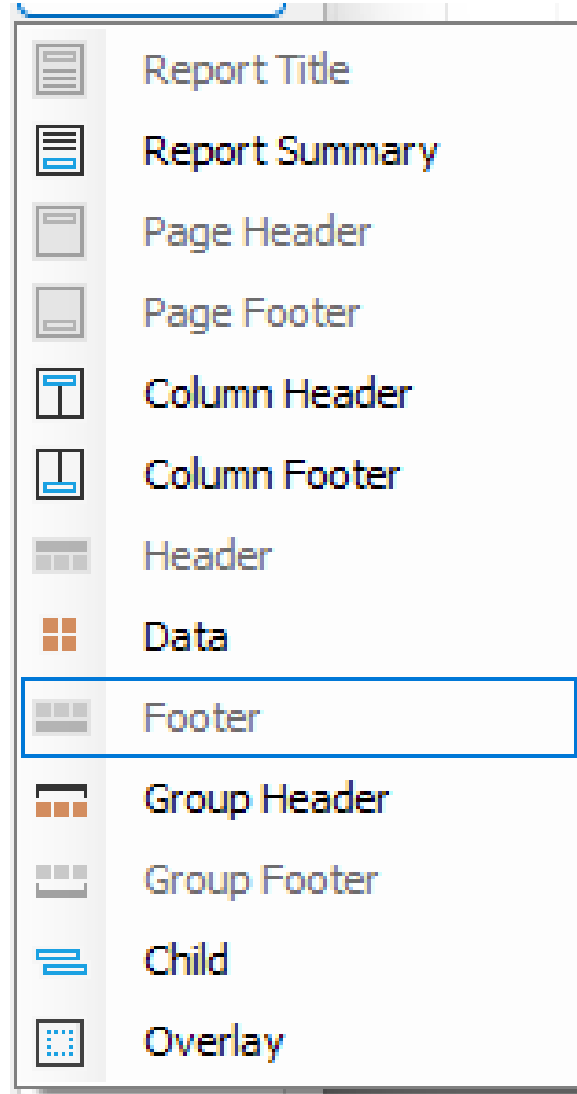
Report script

Report pages

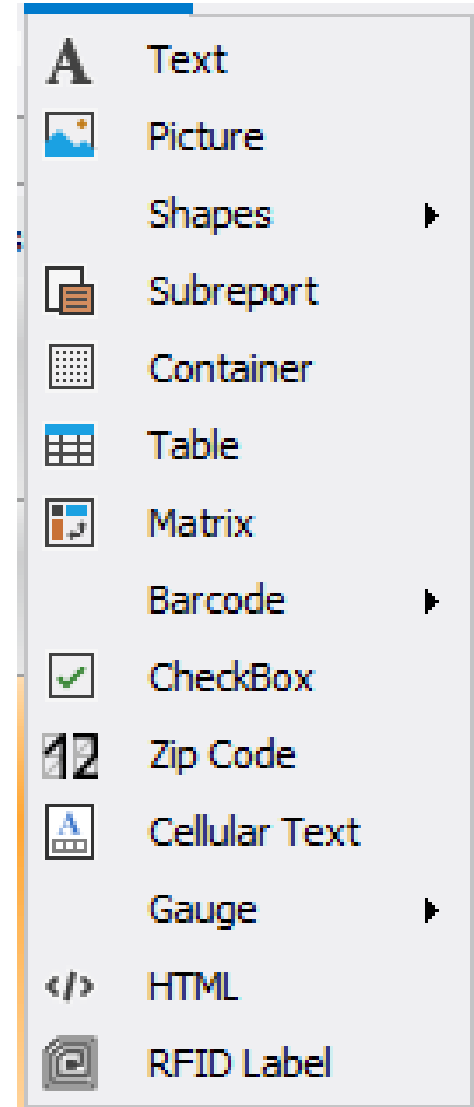
Properties window

# Open Source Designer

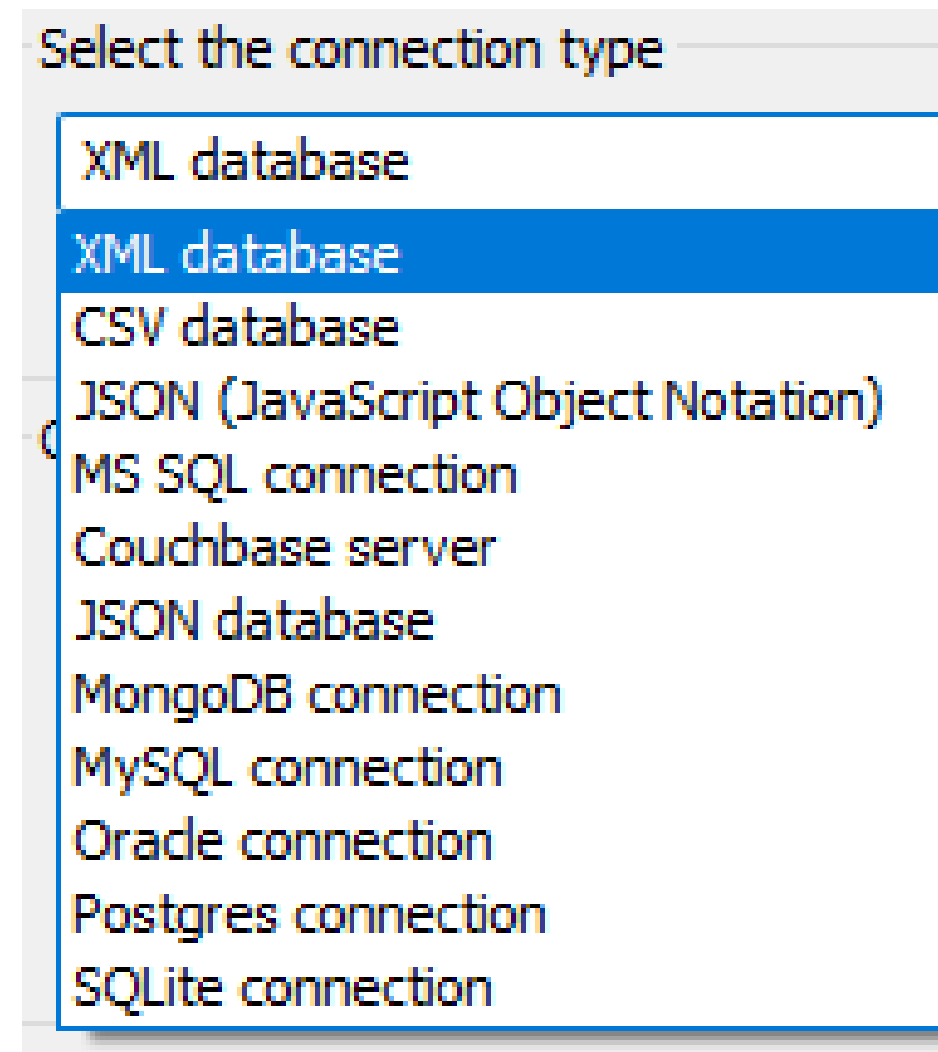
Band-oriented: 13 types



Objects: 8 types



DataSource: 11 types



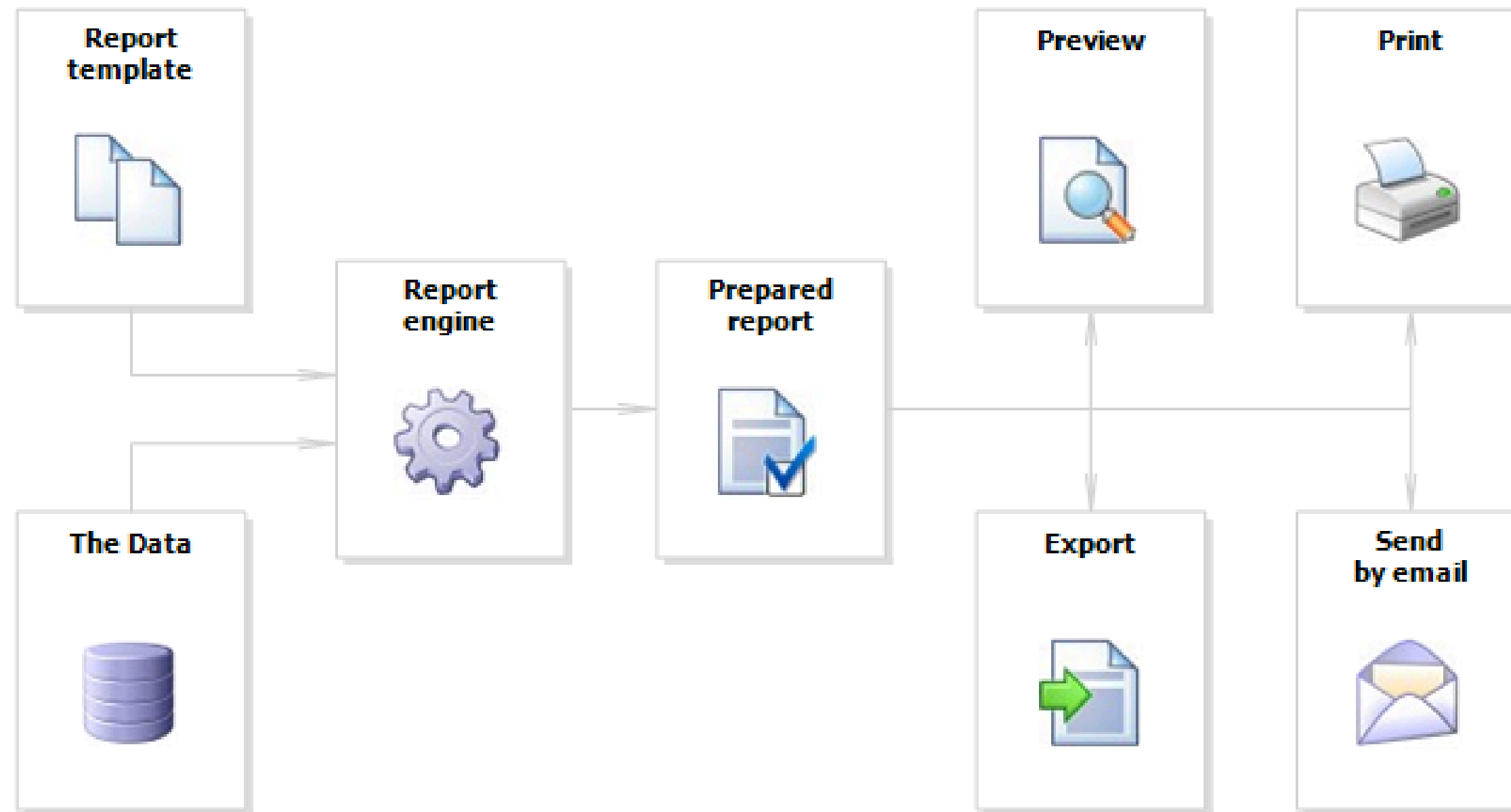
+ BusinessObjectDataSource

Export: 8 types

- HTML
- BMP
- PNG
- JPEG
- GIF
- TIFF
- EMF
- PDF

- FastReport has ability to get data from business objects of IEnumerable type.

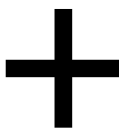
# Implementations





# ReportTemplateI.ftx

```
<?xml version="1.0" encoding="utf-8"?>
<Report ScriptLanguage="CSharp" ReportInfo.Name="testName" ReportInfo.Author="testAuthor"
ReportInfo.Version="1.0.1" ReportInfo.Description="testDescription" ReportInfo.Created="04/02/2025
14:10:09" ReportInfo.Modified="04/04/2025 16:17:57" ReportInfo.CreatorVersion="2024.2.0.0">
  <Dictionary>
    <BusinessObjectDataSource Name="JSON"
      DataType="System.Collections.Generic.List`1[SimpleFastReport.API.DTos.EmployeeReponseDTO,
SimpleFastReport.API, Version=1.0.0.0, Culture=neutral, PublicKeyToken=null]" Enabled="true">
      <Column Name="EmployeeId" DataType="System.Double"/>
      <Column Name="FirstName" DataType="System.String"/>
      <Column Name="LastName" DataType="System.String"/>
    </BusinessObjectDataSource>
  </Dictionary>
  <ReportPage Name="Page2" Watermark.Font="Arial, 60pt">
    <OverlayBand Name="Overlay1" Width="718.2" Height="935.55" Guides="387.45,387.45">
      <TextObject Name="Text12" Width="718.2" Height="85.05" CanGrow="true" GrowToBottom="true"
CanBreak="false" Text="[UpperCase(&quot;Employee list&quot;)]" Padding="2, 2, 2, 2" AutoWidth="true"
HorzAlign="Center" VertAlign="Center" Font="Leelawadee, 20pt"/>
    </OverlayBand>
  </ReportPage>
  <ReportPage Name="Page1" Watermark.Font="Arial, 60pt" ResetPageNumber="true">
    <ReportTitleBand Name="ReportTitle1" Width="718.2" Height="37.8"
Guides="236.25,236.25,236.25,236.25,236.25">
      <TextObject Name="Text7" Width="718.2" Height="37.8" Text="[UpperCase(&quot;Employees&quot;)]"
HorzAlign="Center" VertAlign="Center" Font="Leelawadee, 18pt, style=Bold"/>
      <ChildBand Name="Child1" Top="41.8" Width="718.2" Height="18.9"/>
    </ReportTitleBand>
    <GroupHeaderBand Name="GroupHeader1" Top="64.7" Width="718.2" Height="37.8" Fill="LinearGradient"
Fill.StartColor="LightCoral" Fill.EndColor="Maroon" Fill.Angle="270" Fill.Focus="0.5" Fill.Contrast="1"
Condition="[JSON.EmployeeId]" KeepTogether="true">
      <TextObject Name="Text11" Left="18.9" Width="680.4" Height="37.8" Text="[JSON.FirstName]
[JSON.LastName]" VertAlign="Center" Font="Leelawadee, 16pt, style=Bold" TextFill.Color="White"/>
    </GroupHeaderBand>
    <PageFooterBand Name="PageFooter1" Top="276.15" Width="718.2" Height="18.9">
      <TextObject Name="Text1" Left="614.25" Width="94.5" Height="18.9" Text="[PageN] / [TotalPages#]"
Font="Arial, 10pt"/>
    </PageFooterBand>
  </ReportPage>
</Report>
```



# ReportDataI.json

```
[
  {
    "employeeId": 1,
    "firstName": "John",
    "lastName": "Doe",
    "email": "john.doe@example.com",
    "phone": "123-456-7890",
    "hireDate": "2022-06-15T00:00:00",
    "salary": 55000,
    "department": "IT",
    "imageUrl": "https://lineagentapi.uatsiamsmile.com/messageImages/030425/image376369_20250403_095648.jpg"
  },
  ...
]
```

# Report Engine

```
<PackageReference Include="FastReport.OpenSource" Version="2025.1.0" />
<PackageReference Include="FastReport.OpenSource.Export.PdfSimple" Version="2025.1.0" />
<PackageReference Include="FastReport.OpenSource.Data.Json" Version="2021.4.0" />
<PackageReference Include="FastReport.OpenSource.Web" Version="2025.1.0" />
```

```
var data = await _dbContext.Products
    .Include(_ => _.ProductGroup)
    .Where(_ => _.IsActive == true)
    .AsSplitQuery()
    .ToListAsync();

var report = new Report();

try {
    report.Load("ReportTemplateI.frx");
    report.RegisterData(data, "DataSourceName");
    report.Prepare();

    using (MemoryStream ms = new MemoryStream())
    {
        PDFSimpleExport pdf = new PDFSimpleExport();
        report.Export(pdf, ms);
        return File(ms.ToArray(), "application/pdf", "ExampleReport.pdf");
    }
} catch (Exception ex) {
    return BadRequest($"Error generating report: {ex.Message}");
} finally {
    report.Dispose();
}
```

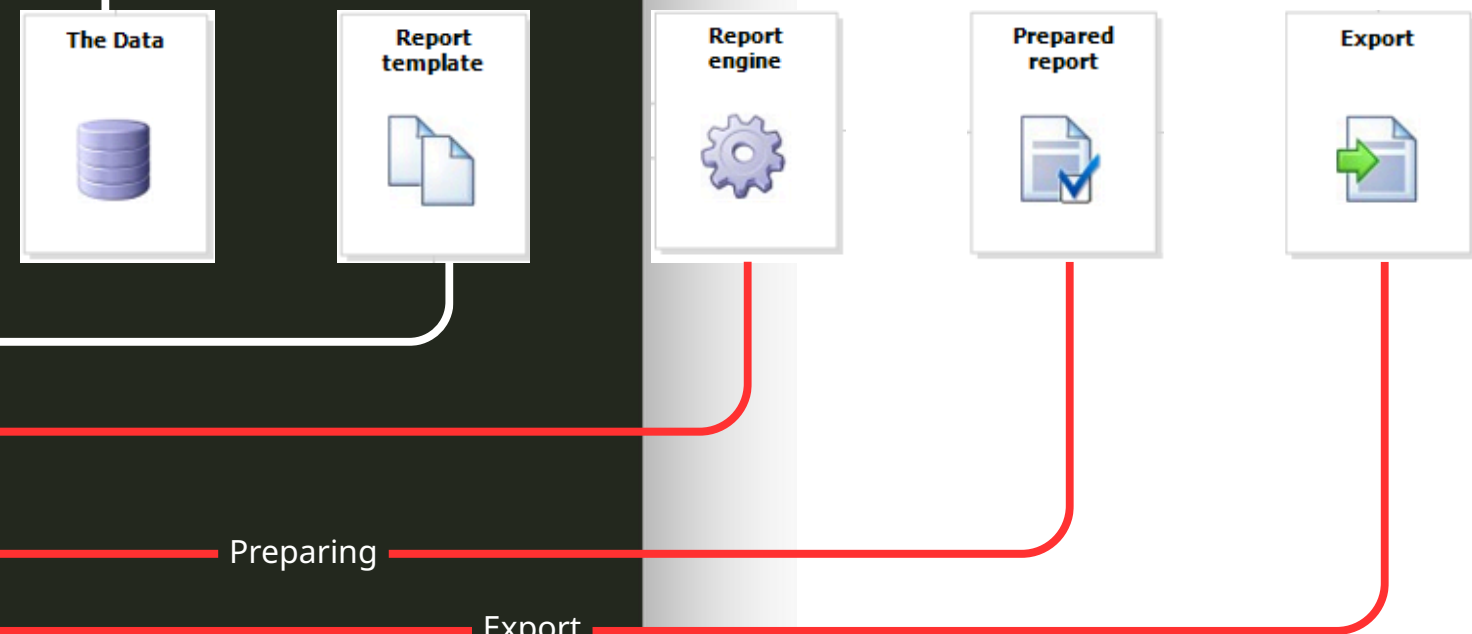
Data

Template

Engine

Preparing

Export

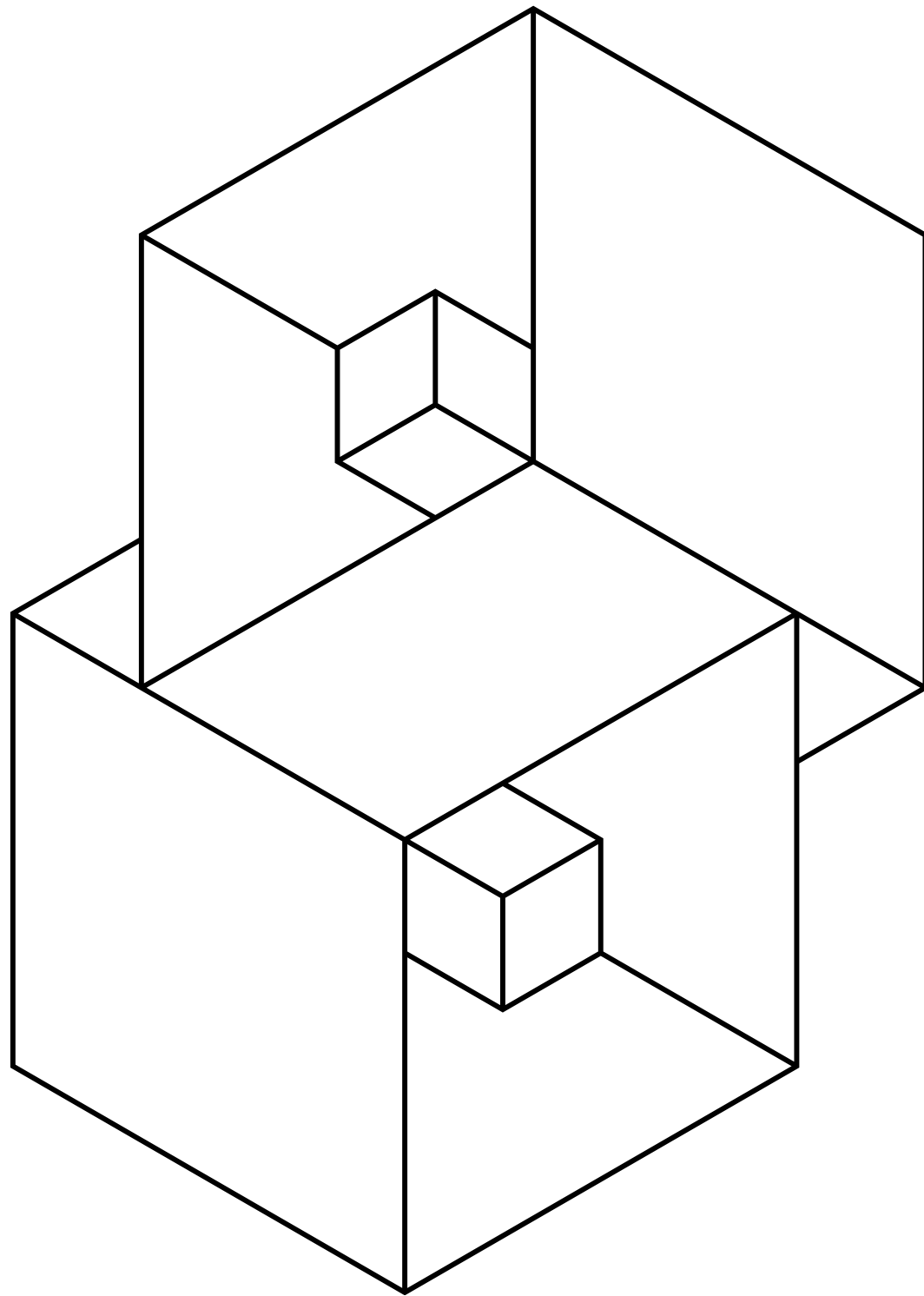




# Workshop

## ข้อควรระวัง

- การทำ Report preview ในที่นี้เป็นแค่ตัวอย่างเบื้องต้นอาจจะเป็นปัญหาด้านความปลอดภัยได้ถ้าหากนำไปใช้จริงๆ
- การทำ Report ต้องจัดการกับเรื่อง DATA สำคัญ ไม่ควรมากเกินไป
- การเปลี่ยน FONT สามารถอ่านได้ใน Handout



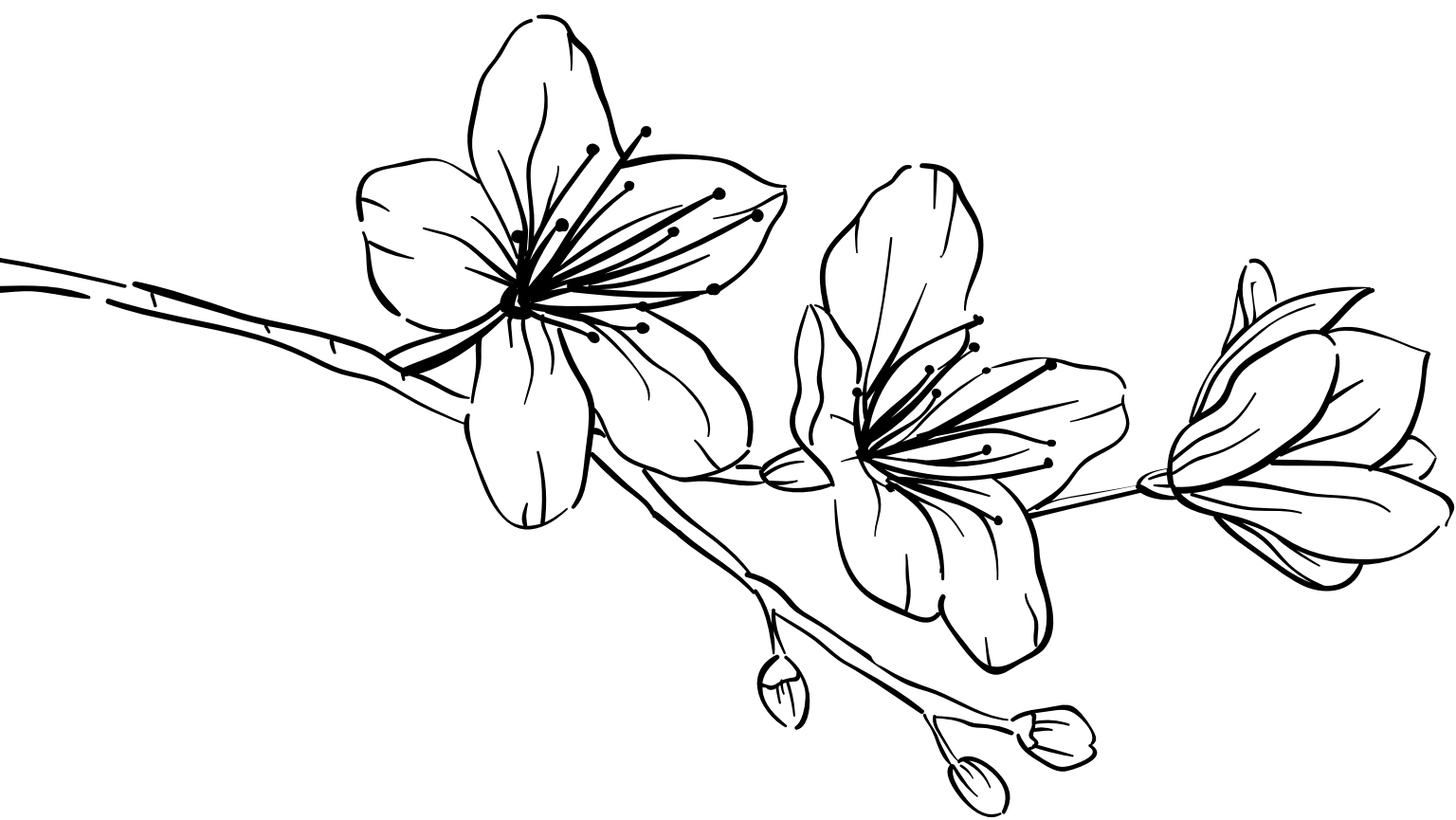
## Reference

**Source Code:** <https://github.com/Pratchaya0/csharp-fast-report.git>

**Fast-Report Manual:** [https://www.fast-report.com/public\\_download/docs/FRNet/online/en/index.html](https://www.fast-report.com/public_download/docs/FRNet/online/en/index.html)

**Fast-Report Repository:** <https://github.com/FastReports/FastReport>

**Fast-Report OpenSource v2025.2.0:** <https://github.com/FastReports/FastReport/releases/tag/v2025.2.0>



ขอบคุณครับ