



MIMU



# MIMU Power BI Training

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# Power BI ဆိုတာ ဘာလဲ

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- BI stands for Business Intelligence
- Business Analytics Service of Microsoft
- Power BI Desktop Free
- Integrate with Office 365
- Connect, Transform, Analytics, Visualize, Share
- And many other developer options...

# Power BI History

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2010 : originally conceived by Thierry D'Hers and Amir Netz of the SQL Server Reporting Services Team at Microsoft

2010 : Project Crescent , designed by Ron George

2011 : Initially available for public download bundled with SQL Server Codename Denali.

2013 : Later renamed to Power BI for Office 365

based on the [Microsoft Excel](#)–based add-ins: Power Query, [Power Pivot](#) and Power View

2015 : Power BI was first released to the general public

# Power BI ကိုဘယ်သူတွေသုံးမလဲ

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- First of their aim was Business Users
- Later it was widely use by General Public for Reporting and Data Analytics
- Office365 Users
- Power BI Service use by work email for free

# Power BI Eco System

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Core, Power BI  
Specific

Core, Non-Power  
BI Specific

Non Core, Power  
BI Specific

Natively Integrated  
Microsoft  
Technology

The Extended  
Power BI Eco  
System

# Core, Power BI Specific

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## Power BI Desktop

- Free
- Support only Windows

## Power BI Service

- Work Email
- Software as a Service
- Originally Power BI for Office 365
- Some data sources can directly connect from Power BI Service

# Core, non-Power BI Specific

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## Power Query

- Microsoft Technology to connect data and transformation
- 100 different sources and transformation without code
- Also can get as a software

## Data Analysis Expressions (DAX)

- Programming language
- Functions, operators and constants to write formulas
- Similar to Excel Functions
- DAX is power BI Equivariant

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# Core, non-Power BI Specific

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## On-premises data gateway

- Gateway make access local data sources to Power BI service
- Personal Mode – Only Can Use with Power BI
- Enterprise Mode – Can use with Microsoft Flow, Power Apps...

## SSAS (Tabular)

- In memory-database
- Model the data with relational constructs such as Table and Relationships

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# Core, non-Power BI Specific

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## Microsoft App Source

- Marketplace for finding apps, add-ins and extensions...
- Custom visuals can available up there

# Non-core, Power BI Specific

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## Power BI Report Server

- On premise technology
- Superset of SSRS

## Power BI Embedded

- REST APIs
- To display visualization, reports, and dashboards
- Often used by Independent Software Vendors

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# Non-core, Power BI Specific

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## Power BI Mobile Applications

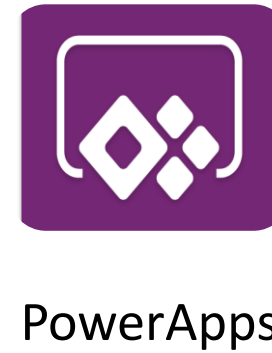
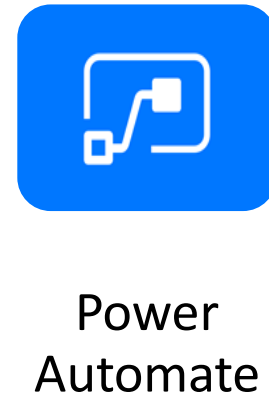
- Native Android, iOS and Windows phones
- Able to view the reports which published to Power BI Service

## Power BI for mixed reality

- Based on Power BI Mobile app
- Designed to work with HoloLens

# Natively Integrated Microsoft Technologies

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# The Extended Power BI Technologies

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APIs SDKs

Python

R

SVG

# Power BI License

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## Power BI Free (Desktop is free, Service can register with work mail)

- 1GB for Dataset, 10GB for All – Eight Refresh Per day 30 minute interval

## Power BI Pro (\$9.99 per month)

- Capacity is same as Free except on premise gateway available
- Power BI Premium, Embedded, and Report Server still need account for each users

## Power BI Premium

- (Capacity based, monthly) (From \$5000 to \$80,000)

## Power BI Embedded

- (For Developer, hourly) (From \$750 to \$24000)

## Power BI Report Server

- (\$4000 - \$7000 percore)

# DAX vs Power Query M

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## Power Query

- Importing, Transforming, Shaping
- Pipeline Use

## DAX

- Data Analysis
- Row Level Security
- Similar to Excel Formula