Introduction to the PowerBI ecosystem

broad overview of the system, programs and other aspects of power BI

Melissa Coates - <https://www.coatesdatastrategies.com/blog/updated-version-of-the-power-bi-end-to-end-diagram>

Use the diagram to give an idea of what is in the PowerBi Ecosystem

**Overview of power bi licensing**

What licences are available

What each license can and cannot do

Discuss what licences and combination of licences might be best

**PowerBi desktop introduction**

What is PowerBI Desktop

Place within the PowerBi ecosystem

What can it do

What can it not do

Background

Updates

What are all these windows

What do the different windows do

Filters pane

Visualisations pane

Fields Pane

Fields well

Format well

Getting data into PowerBI

Power Query Editor

Getting data

Editing data

Query Settings and Editor

Introduction to Dax

Review of visuals

**PowerBi Service**

What is the service?

Why do I need the service?

What can the service do for me

What can I see in the service

Datasets

Reports

Data Refresh

DataFlows

Workspaces

Deploying to service

Why should I care about workspaces

Workspaces

Security

Roles

What can each role do

Who should be able to access what

Different types of licences

Permissions

Free vs Pro vs Premium Per User vs Premium

Advanced settings

Data gateways

Data credentials

Embedding reports publicly, the good the bad and the ugly

**PowerBi desktop Intermediate topics**

Custom Visuals

Intro to the App Store

Examples of useful custom visuals

Chiclet Slicer

OkViz - Card with states

OkVix - Bullet Chart

Timeline Slicer

Sankey Chart

DAX expressions

Advanced M language

Parameters

Grouping

Tooltips reporting tooltips

Data modelling

Order by how to use it and why you need to know

Deploying to the service

Power Query Editor in Excel

Data modelling

What is it

Why should I care

Relationships

The good, the bad, and the ugly

PowerBi Mobile

Usage

Designing reports

How to access

Messaging /Annotations

Data connectors

What are they?

How do they work?

Why should I care about them?

Advanced topics

Importing data

Direct Query vs Import

What is it?

Why should I care??

What should I consider when using it?

Pitfalls and traps

3rd party tools

Dax Editor

ALM Toolkit

Tabular Editor

Advanced DAX

Variables

Where to get more information

Dax Editor

Debug of Dax expressions

Exploration of some common DAX expressions?

DataSets

DataFlows

Development Pipelines

Drill through reports

Time Intelligence

What is it

What can it do for me

Why should I care about it

Charticulator

Filters

Selection pane

Objects / shapes

Showing/hiding objects

Extending of PowerBi

Use with Paginatied reports (SSRS)

Use with PowerApps

Use with Power Flow

Bookmarks

Buttons

Themes and creation of custom themes

Python and R

Practical uses of Python Scripts

Importing data using PowerQuery Editor

Use of Python for advanced analysis

Editing Queries

M / Power Query Language

Data visualization

Audience who, what and where

Gestalt principles

Preattentive attributes

Colour choice and theory

visualization best practices

Best charts for which data

Chart selection

Best practice for charts

Accessibility

Colour Blindness

Screen Readers

Data storytelling principals

Do know your data

Whose is your audicence

What should they care

List of websites and resources.