QGIS FAST TRACK

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Consultant

25/11/2019

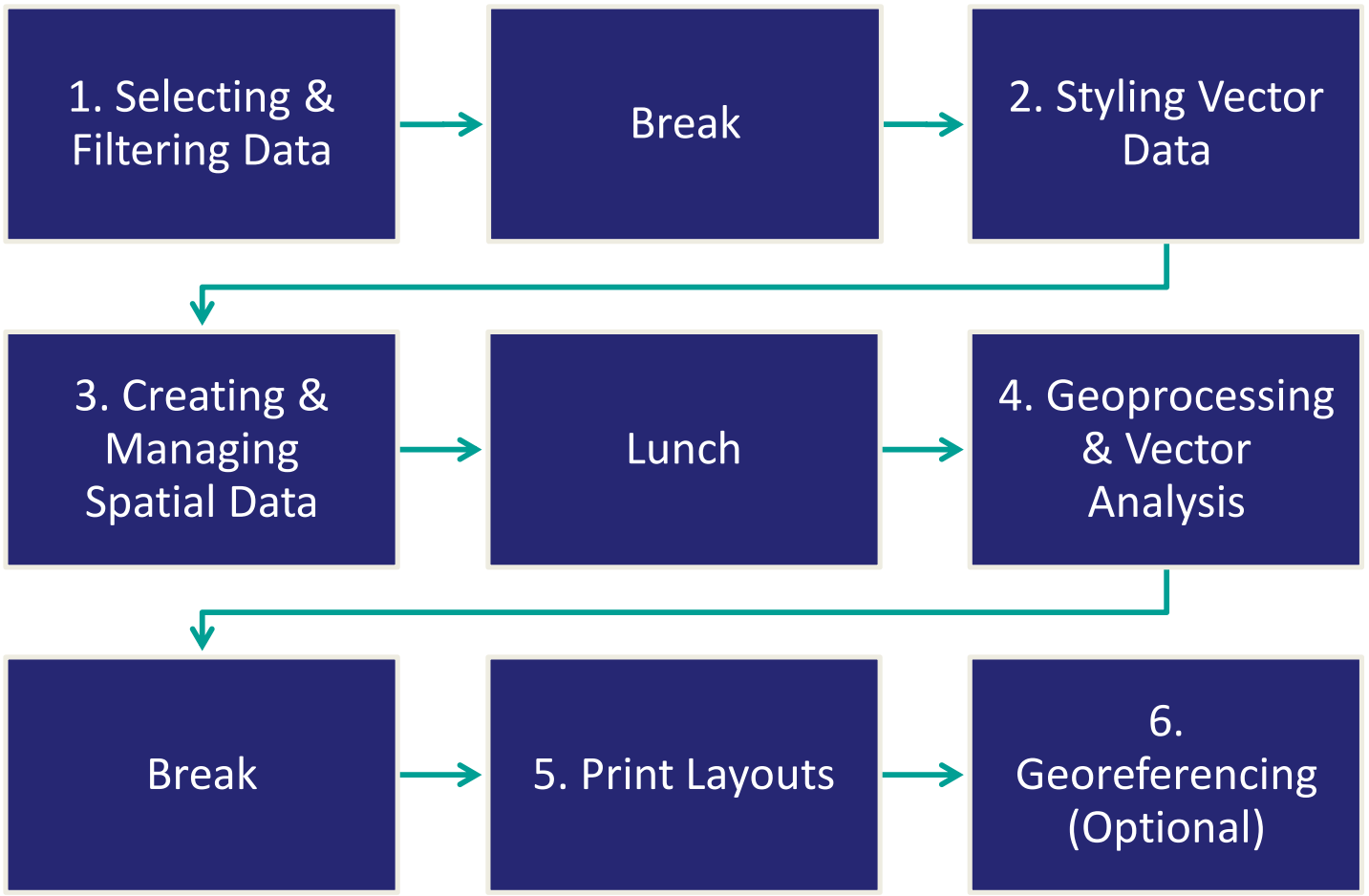
THINKWHERE – WHO ARE WE?

- Based in Stirling, 20 staff
- Independent, leading provider of innovative GIS solutions
- Dynamic team of open source experts
- Delivering a wide range of open source GIS training courses.
- First class reputation for service quality and delivery

WELCOME

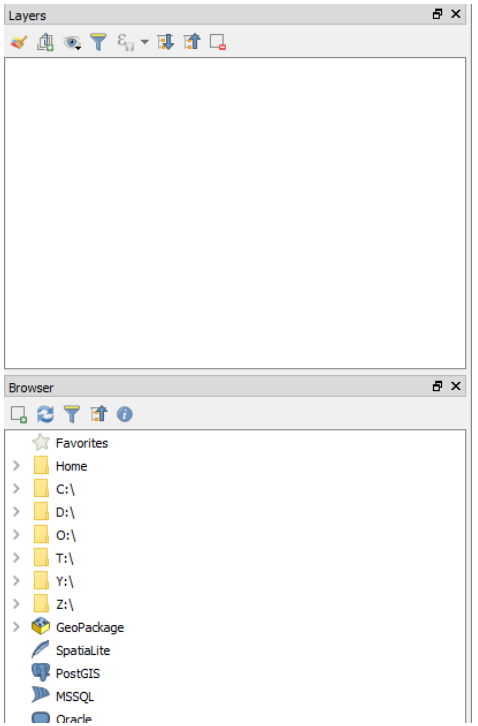
- Fire Alarms
- Logistics of the Day
- Breaks
- Questions

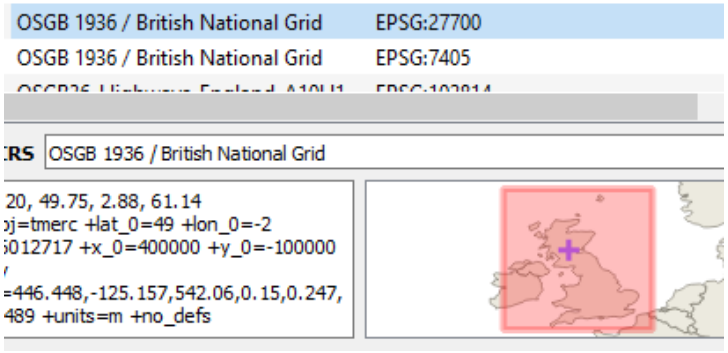
AGENDA


1. Selecting & Filtering Data
Break
2. Styling Vector Data
3. Creating & Managing Spatial Data
Lunch
4. Geoprocessing & Vector Analysis
Break
5. Print Layouts
6. Georeferencing (Optional)

INTRODUCTION

- Training Data
- QGIS Interface
- Coordinate Reference Systems
- Plugins





MODULE 1 OBJECTIVES

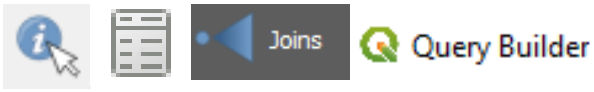
AIM: Extract information from spatial data using a variety of data management and querying tools

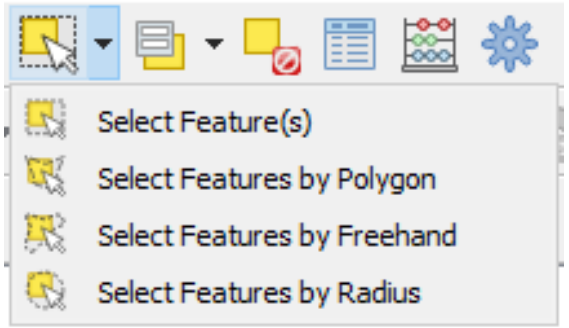
By the end of this section you should be able to…

- Add data and web services to QGIS
- Perform attribute queries
- Join data using attributes
- Perform spatial queries

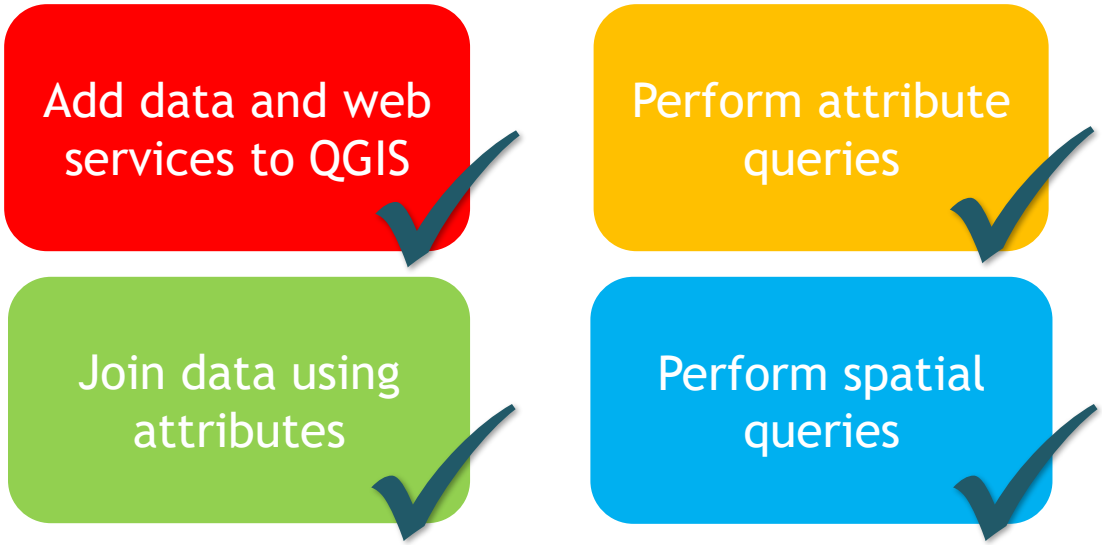
MODULE 1 – SELECTING AND FILTERING DATA

- Demonstration
  - *Adding Data*
  - *Filter Vector Data*
  - *Selections*
  - *Attribute Joins*
- Exercise





MODULE 1 REVIEW



MODULE 2 OBJECTIVES

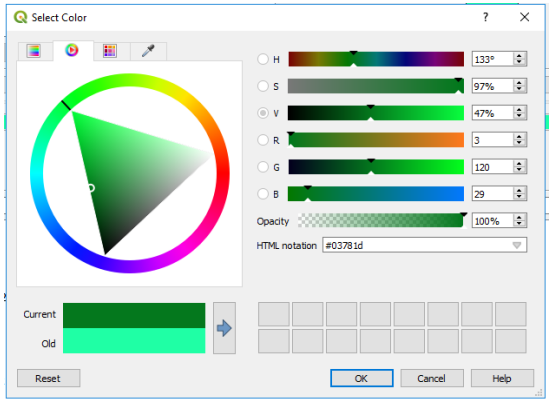
AIM: Learn basic cartographic principles, in order to produce professional, user friendly map layers

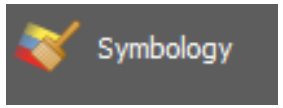
By the end of this section you should be able to…

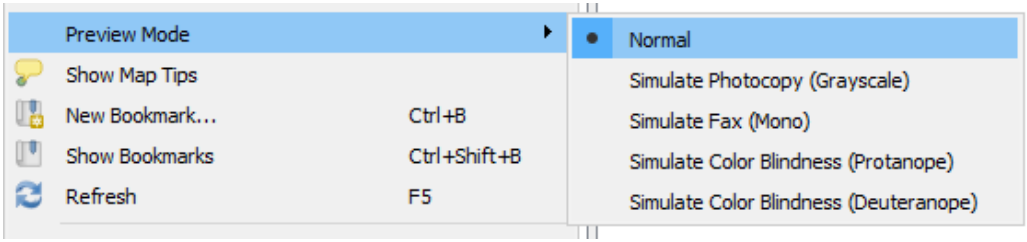
- Style vector layers using different styling types
- Label vector layers
- Build a composite symbol

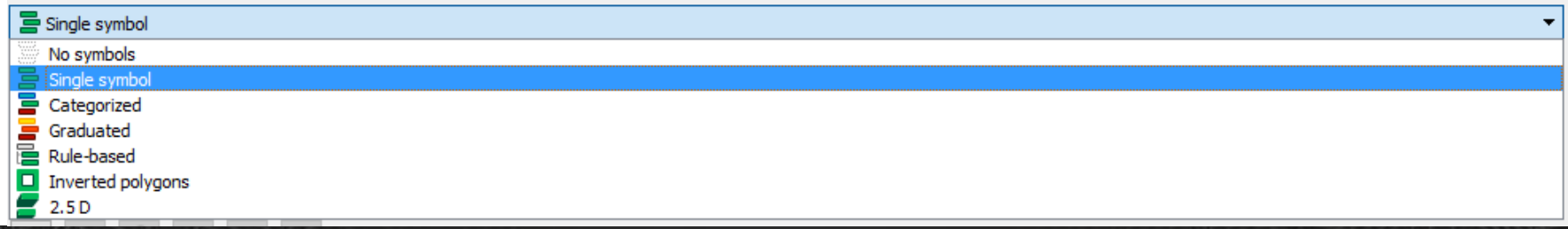
MODULE 2 – STYLING VECTOR DATA

- Demonstration
  - *Colours and Symbols*
  - *Setting Styles in QGIS*
- Exercise
- Demonstration
  - *Labelling*
- Exercise

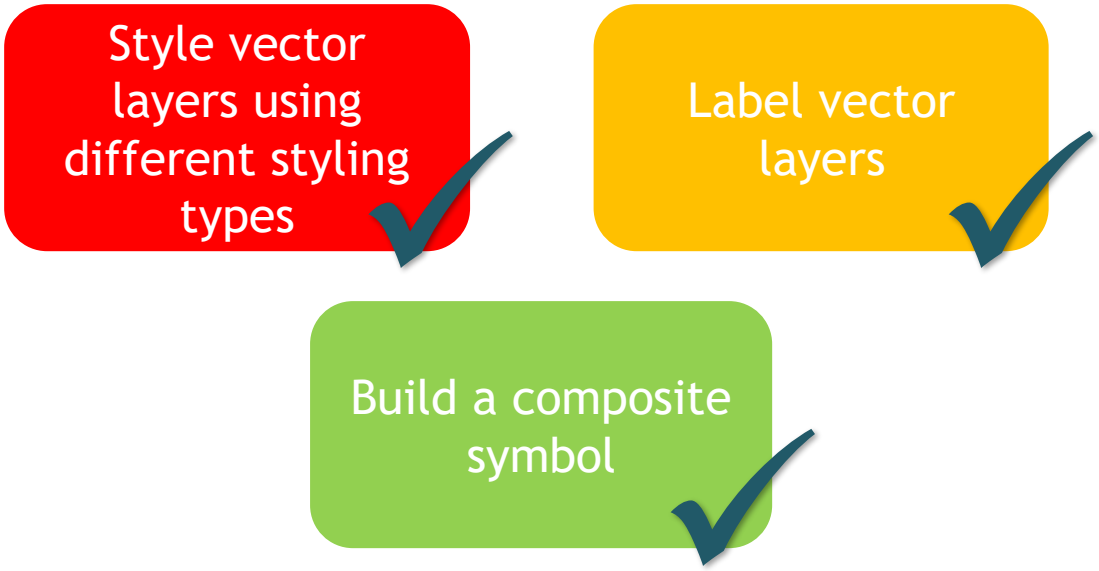








MODULE 2 REVIEW



MODULE 3 OBJECTIVES

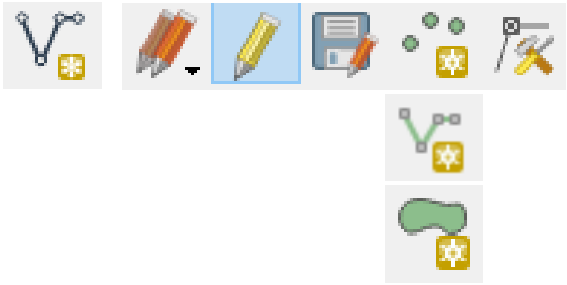
AIM: Learn to create and edit spatial data using a variety of digitising techniques

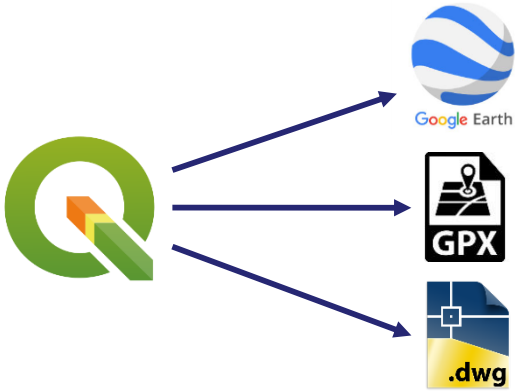
By the end of this section you should be able to…

- Create a new spatial data file
- Create and edit spatial features
- Digitise using advanced editing tools

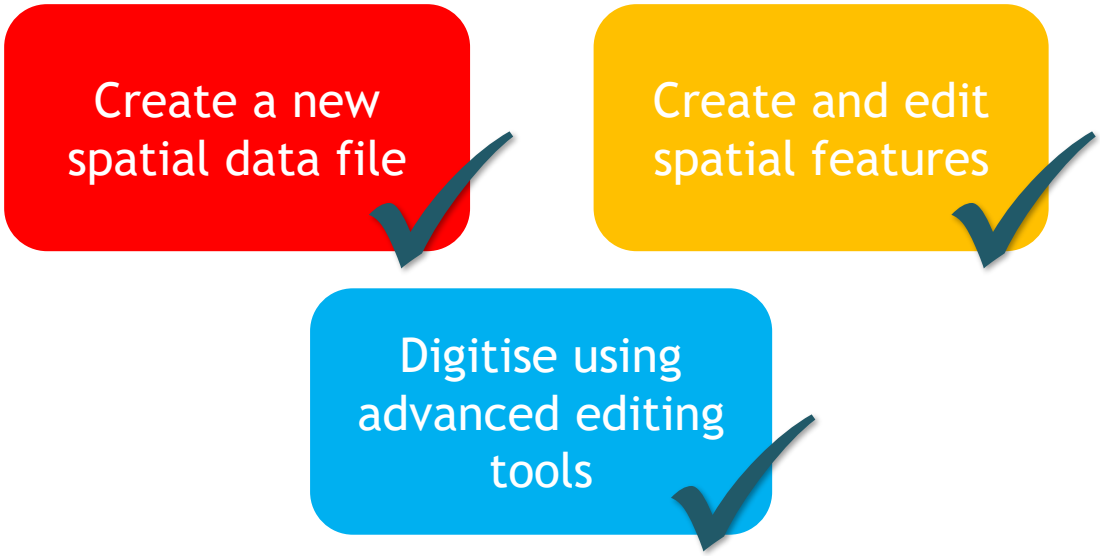
MODULE 3 - CREATING & MANAGING SPATIAL DATA

- Demonstration
  - *Create a new layer*
  - *GeoPackages*
  - *Editing Mode*
  - *Field Calculator*
  - *Advanced Digitising*
- Exercise





MODULE 3 REVIEW



MODULE 4 OBJECTIVES

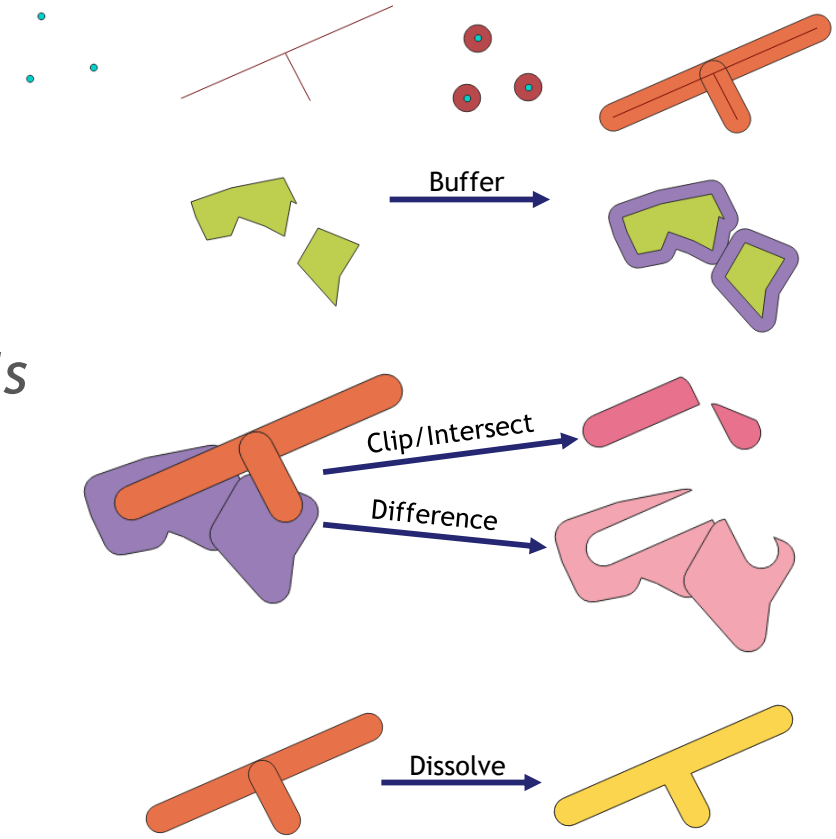
AIM: Learn how to create and explore spatial data using geoprocessing and analysis tools

By the end of this section you should be able to…

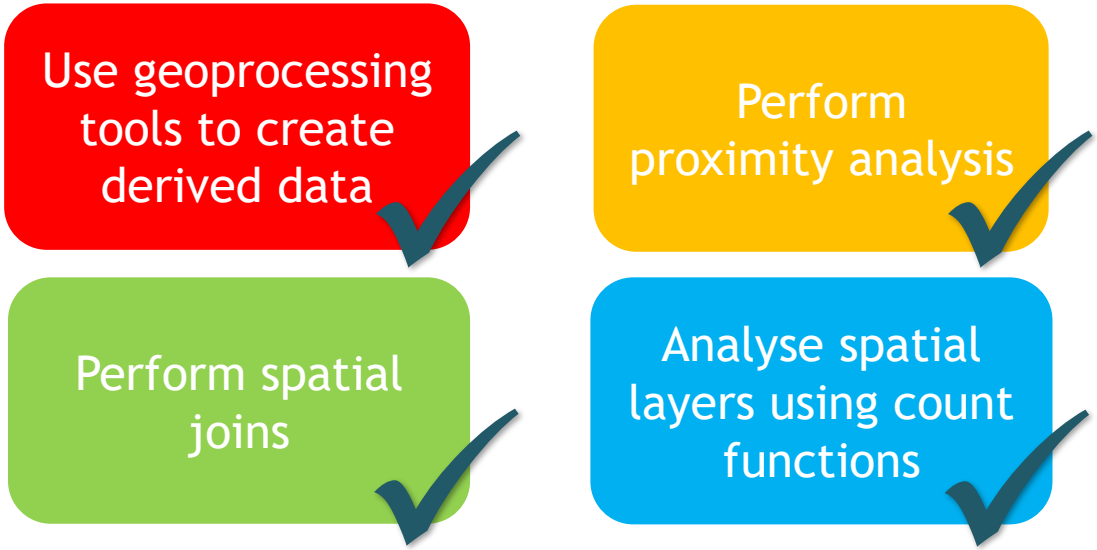
- Use geoprocessing tools to create derived data
- Perform proximity analysis
- Perform spatial joins
- Analyse spatial layers using count functions

MODULE 4 - GEOPROCESSING & VECTOR ANALYSIS

- Demonstration
  - *Geoprocessing*
- Activity
  - *Applying Geoprocessing Tools*
- Exercise
- Demonstration
  - *Spatial Joins*
  - *Count Points in Polygon*
  - *Proximity Analysis*
- Exercise



MODULE 4 REVIEW



MODULE 5 OBJECTIVES

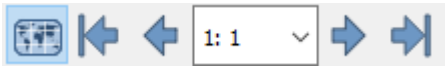
AIM: Learn how to produce high quality cartographic outputs

By the end of this section you should be able to…

- Produce a standalone, publishable map using a Print Layout
- Develop a map template
- Produce a map-book using an Atlas Layout

MODULE 5 – PRINT LAYOUTS

- Demonstration
  - *Print Layout Manager*
  - *Print Layout Interface*
- Exercise
- Demonstration
  - *Atlas*
- Exercise



MODULE 5 REVIEW

Produce a standalone, publishable map using a Print Layout

Develop a map template

Produce a map-book using an Atlas Layout

MODULE 6 OBJECTIVES

AIM: Learn how to assign coordinates to raster images, achieving high accuracy georeferencing

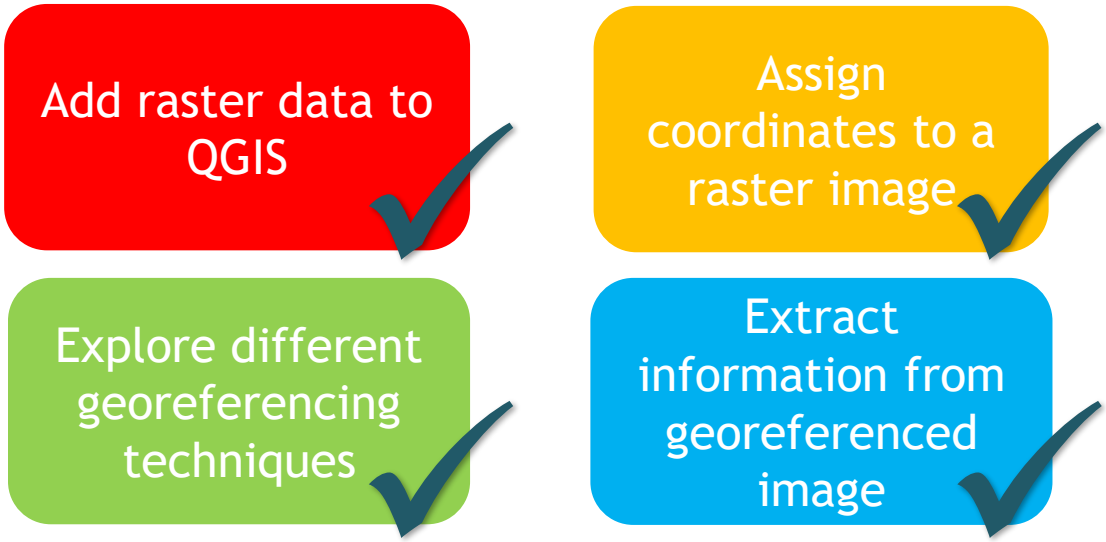
By the end of this section you should be able to…

- Add raster data to QGIS
- Assign coordinates to a raster image
- Explore different georeferencing techniques
- Extract information from georeferenced image

MODULE 6 - GEOREFERENCING

- Demonstration
  - *Georeferencing*
- Exercise

MODULE 6 OBJECTIVES



REVIEW

- Selecting & Filtering Data
- Styling Vector Data
- Creating & Managing Spatial Data
- Geoprocessing & Vector Analysis
- Print Layouts
- Georeferencing

FURTHER TRAINING

- QField for QGIS
- QGIS 3 Advanced
- Python for QGIS
- PostGIS User
- PostGIS Administrator
- Geoserver
- OpenLayers

- 30 days free support - support@thinkWhere.com

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QUESTIONS?

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