

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- point [6]
- Lines [3]
- Polygons [7]
- Apiary [40]
  - European honey bee [7]
  - Buckfast bee [13]
  - Carniolan honey bee [20]
- Fields [18]
  - Colza [1]
  - Grass [6]
  - Lavender [4]
  - Dandelions [5]
  - Weed [2]
- Basemap
  - Online OpenStreetMap
  - Offline local osm
    - lines
    - buildings
    - landscape
- Tables
  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Processing Toolbox

refactor

Vector table

Refactor fields

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K)

The screenshot shows a QGIS desktop application window. The main area displays a map of a residential and agricultural area with streets, buildings, and various land parcels. Several vector layers are visible, including 'point' (red dots), 'Lines' (black lines), and 'Polygons' (orange shapes). A specific polygon is highlighted with a black outline and labeled 'Polygone #1'. Another polygon is labeled 'Polygone #2'. Points are labeled 'Point #1', 'Point #2', and 'Point #3 - Modified'. A text annotation 'Test from Offline editing' is overlaid on the map near the bottom center. In the top right corner, the 'Processing Toolbox' is open, and the 'Vector table' section is expanded, with 'Refactor fields' highlighted. The bottom status bar shows the coordinate (1031179, 5911030), scale (1:6608), magnification (100%), rotation (0.0°), and rendering settings (EPSG:3857).

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  - Pollen\_Consumption [8]

Processing Toolbox

Refactor fields

Refactor Fields

Parameters Log

Input layer: point [EPSG:3857]

Selected features only

Fields mapping

Source Expression	Name	Type
123 fid_pk	fid_pk	123 Integer (64 bit)
abc Name	Name	abc Text (string)
abc Photo	Photo	abc Text (string)
abc Voice	Voice	abc Text (string)
abc Video	Video	abc Text (string)
abc User	User	abc Text (string)

Load fields from template layer: Apiary Load Fields

Refactored: Create temporary layer

0% Advanced Run as Batch Process... Run Close Help

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K)

The screenshot displays the QGIS interface with a map of an apiary area overlaid on a basemap. A processing dialog box, 'Refactor Fields', is open in the foreground, overlaid on the map. The dialog box has a green border and contains several sections: 'Parameters' and 'Log' tabs, 'Input layer' set to 'point [EPSG:3857]', a checkbox for 'Selected features only', and a 'Fields mapping' table. The table lists six fields with their source expressions, names, and types. Below the table are buttons for loading fields from a template layer ('Apiary') and creating a temporary layer. At the bottom of the dialog are 'Advanced', 'Run as Batch Process...', 'Run', 'Close', and 'Help' buttons. The status bar at the bottom of the QGIS window shows coordinate values (1031179, 5911030), scale (1:6608), magnification (100%), rotation (0.0°), render settings, and EPSG code (EPSG:3857).

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- point [6]
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- Tables
  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Processing Toolbox

Refactor fields

Refactor Fields

Parameters Log

Selected features only

Fields mapping

Source Expression	Name	Type
0 123 fid_pk	fid_pk	123 Integer (64 bit)
1 abc Name	Name	abc Text (string)
2 abc Photo	Photo	abc Text (string)
3 abc Voice	Voice	abc Text (string)
4 abc Video	Video	abc Text (string)
5 abc User	User	abc Text (string)

Load fields from template layer: \* Apiary Load Fields

Refactored

[Create temporary layer]

Open output file after running algorithm

0% Advanced Run as Batch Process... Run Close Help

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K)

The screenshot displays the QGIS interface with a green overlay highlighting the 'Refactor Fields' dialog box. The dialog is used to modify the structure of a vector layer's attribute table. It includes a 'Fields mapping' table where columns are 'Source Expression', 'Name', and 'Type'. The first row has 'fid\_pk' as the source expression, 'fid\_pk' as the name, and '123 Integer (64 bit)' as the type. Other rows show fields like 'Name', 'Photo', 'Voice', 'Video', and 'User' with their respective types. Below the table are buttons for 'Load fields from template layer' (set to 'Apiary') and 'Load Fields'. The 'Refactored' section contains a dropdown for '[Create temporary layer]' and a checked checkbox for 'Open output file after running algorithm'. At the bottom are 'Advanced' and 'Run as Batch Process...' buttons, along with 'Run', 'Close', and 'Help' buttons. The status bar at the bottom shows coordinates, scale, magnification, rotation, and EPSG code.

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- point [6]
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  - lines
  - buildings
  - landscape
- Tables
  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Refactor Fields

Parameters Log

Selected features only

Fields mapping

Source Expression	Name	Type
0 123 fid_pk	fid_pk	123 Integer (64 bit)
1 abc Name	Name	abc Text (string)
2 abc Photo	Photo	abc Text (string)
3 abc Voice	Voice	abc Text (string)
4 abc Video	Video	abc Text (string)
5 abc User	User	abc Text (string)

Load fields from template layer: \* Apiary Load Fields

Refactored

[Create temporary layer]

Open output file after running algorithm

Create Temporary Layer  
Save to File...  
**Save to GeoPackage...**  
Save to Database Table...  
Append to Layer...  
Change File Encoding (UTF-8)...

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Processing Toolbox

refactor

Vector table

factor fields

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

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  - landscape
- Tables
  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Processing Toolbox

Refactor Fields

Save to GeoPackage

Organize New folder

Name	Date modified	Type	Size
.qfieldsync	15/06/2024 11:15	File folder	
audio	15/06/2024 11:15	File folder	
DCIM	15/06/2024 11:15	File folder	
video	15/06/2024 11:15	File folder	
bees.gpkg	15/06/2024 11:15	GPKG File	144
laax.gpkg	15/06/2024 11:15	GPKG File	1,932
layers.gpkg	15/06/2024 11:15	GPKG File	164

File name:

Save as type: GeoPackage files (\*.gpkg)

Save Cancel

Advanced Run as Batch Process... Run Close Help

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K)

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- point [6]
- Lines [3]
- Polygons [7]
- Apiary [40]
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Processing Toolbox

Refactor Fields

Save to GeoPackage

Organize New folder

Name	Date modified	Type	Size
.qfieldsync	15/06/2024 11:15	File folder	
audio	15/06/2024 11:15	File folder	
DCIM	15/06/2024 11:15	File folder	
video	15/06/2024 11:15	File folder	
bees.gpkg	15/06/2024 11:15	GPKG File	144
laax.gpkg	15/06/2024 11:15	GPKG File	1,932
layers.gpkg	15/06/2024 11:15	GPKG File	164

File name: Points\_Fixed

Save as type: GeoPackage files (\*.gpkg)

Save Cancel

Advanced Run as Batch Process... Run Close Help

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K)

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- point [6]
- Lines [3]
- Polygons [7]
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    - buildings
    - landscape
- Tables
  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Processing Toolbox

Refactor Fields

Parameters Log

Selected features only

Fields mapping

Source Expression	Name	Type
0 123 fid_pk	fid_pk	123 Integer (64 bit)
1 abc Name	Name	abc Text (string)
2 abc Photo	Photo	abc Text (string)
3 abc Voice	Voice	abc Text
4 abc Video	Video	abc Text
5 abc User	User	abc Text

Save to GeoPackage

Layer name: output

OK Cancel

Load fields from template layer: \* Apiary

Load Fields

Refactored

[Create temporary layer]

Open output file after running algorithm

0% Advanced Run as Batch Process... Run Close Help

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K)

The screenshot shows the QGIS interface with the 'Refactor Fields' algorithm open. A sub-dialog titled 'Save to GeoPackage' is displayed, prompting the user to enter a 'Layer name' (set to 'output'). This dialog is highlighted with a green box. The main 'Refactor Fields' dialog shows a table of fields being mapped from their source expressions to new names and types. The 'Fields mapping' table includes columns for 'Source Expression', 'Name', and 'Type'. The 'Type' column for the first row ('fid\_pk') is highlighted in orange, indicating it has constraints from a template layer. The 'Log' tab is also visible in the main dialog.

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- point [6]
- Lines [3]
- Polygons [7]
- Apiary [40]
  - European honey bee [7]
  - Buckfast bee [13]
  - Carniolan honey bee [20]
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  - Lavender [4]
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    - buildings
    - landscape
- Tables
  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Refactor Fields

Parameters Log

Selected features only

Fields mapping

Source Expression	Name	Type
0 123 fid_pk	fid_pk	123 Integer (64 bit)
1 abc Name	Name	abc Text (string)
2 abc Photo	Photo	abc Text (string)
3 abc Voice	Voice	abc Text
4 abc Video	Video	abc Text
5 abc User	User	abc Text

Save to GeoPackage

Layer name: Points

OK Cancel

Load fields from template layer: \* Apiary

Refactored

[Create temporary layer]

Open output file after running algorithm

0% Advanced Run as Batch Process... Run Close Help

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

MapTiler ...

Processing Toolbox

refactor

Vector table

Refactor fields

5.00 meters

Via Stradun Via Tessa Via Partana Via Principale

Type to locate (Ctrl+K)

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- point [6]
- Lines [3]
- Polygons [7]
- Apiary [40]
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Processing Toolbox

Refactor fields

Refactor Fields

Parameters Log

Selected features only

Fields mapping

Source Expression	Name	Type
0 123 fid_pk	fid_pk	123 Integer (64 bit)
1 abc Name	Name	abc Text (string)
2 abc Photo	Photo	abc Text (string)
3 abc Voice	Voice	abc Text (string)
4 abc Video	Video	abc Text (string)
5 abc User	User	abc Text (string)

Load fields from template layer: \* Apiary Load Fields

Refactored: advanced\_Bee\_Farming\_Demo/Points\_Fixed.gpkg table="Points" (geom)

Open output file after running algorithm

0% Advanced Run as Batch Process... Run Close Help

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K)

\*Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- Points
- point [6]
- Lines [3]
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    - buildings
    - landscape
- Tables
  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Processing Toolbox

refactor

Recently used

Refactor fields

Refactor Fields

Parameters Log

```
    "text"), {"alias": "", "comment": "", "expression": "'Voice'", "length": 0, "name": "Voice", "precision": 0, "sub_type": 0, "type": 10, "type_name": "text"}, {"alias": "", "comment": "", "expression": "'Video'", "length": 0, "name": "Video", "precision": 0, "sub_type": 0, "type": 10, "type_name": "text"}, {"alias": "", "comment": "", "expression": "'User'", "length": 0, "name": "User", "precision": 0, "sub_type": 0, "type": 10, "type_name": "text"}, {"alias": "", "comment": "", "expression": "'Latitude'", "length": 0, "name": "Latitude", "precision": 0, "sub_type": 0, "type": 10, "type_name": "text"}, {"alias": "", "comment": "", "expression": "'Longitude'", "length": 0, "name": "Longitude", "precision": 0, "sub_type": 0, "type": 10, "type_name": "text"}, {"alias": "", "comment": "", "expression": "'Field'", "length": 0, "name": "Field", "precision": 0, "sub_type": 0, "type": 10, "type_name": "text"}], "INPUT": "C:/Users/SeqLaz/QField/cloud/OPENGIS_Advanced_Bee_Farming_Demo/layers.gpkg", "layername": "point", "OUTPUT": "c:/ogr/dbname='C:/Users/SeqLaz/QField/cloud/OPENGIS_Advanced_Bee_Farming_Demo/Points_Fixed.gpkg' table='Points' (geom)"}
```

Execution completed in 1.30 seconds

Results:

```
    OUTPUT: C:/Users/SeqLaz/QField/cloud/OPENGIS_Advanced_Bee_Farming_Demo/Points_Fixed.gpkg
```

Loading resulting layers  
Algorithm 'Refactor fields' finished

Complete Cancel

Advanced Run as Batch Process... Change Parameters Close Help

Type to locate (Ctrl+K)

Coordinate 1031179, 5911030 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

\*Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- Points
- Line [6]
- Polygon [1]
- Area [1]
- File [1]
- Basemaps
- Tables
- Attributes
- Properties

point [6]

- Zoom to Layer(s)
- Show in Overview
- Show Feature Count
- Show Labels
- Copy Layer
- Rename Layer
- Duplicate Layer
- Remove Layer...
- Move to Top
- Move to Bottom
- Open Attribute Table
- Toggle Editing
- Filter...
- Change Data Source...
- Set Layer Scale Visibility...
- Layer CRS
- Export
- Styles
- Add Layer Notes...
- Properties...

Recent colors

Color palette

Copy Style

- Add...
- Rename Current...
- default

Color wheel

Recent colors

Edit Symbol...

Copy Symbol

Paste Symbol

All Style Categories

- Layer Configuration
- Symbology
- 3D Symbology
- Labels
- Fields
- Attribute Form
- Actions
- Map Tips
- Diagrams
- Attribute Table Configuration
- Rendering
- Custom Properties
- Geometry Options
- Relations
- Temporal Properties
- Legend Settings
- Elevation Properties
- Notes

Processing Toolbox

- refactor
- Recently used
- Vector table
- Refactor fields

Scale 1:6608

Magnifier 100%

Rotation 0.0 °

Render

EPSG:3857

Type to locate (Ctrl+K)

Toggles the editing state of th

\*Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- Point #1
- Point #2
- Polygone #1

Processing Toolbox

- refactor
- Recently used
- Vector table
- Refactor fields

Copy Style

Paste Style

All Style Categories.

- Add...
- Rename Current...
- default

Recent colors

Edit Symbol...

Copy Symbol

Paste Symbol

5.00 meters

8, 5910934 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K) Toggles the editing state of t

\*Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- Points
- Lines
- Polygons
- Apiary
- Fields
- Basem
- Open
- Tables
- Apia
- Poller

point

- Zoom to Layer(s)
- Zoom to Selection
- Show in Overview
- Show Feature Count
- Show Labels
- Copy Layer
- Rename Layer
- Duplicate Layer
- Remove Layer...**
- Move to Top
- Move to Bottom
- Open Attribute Table
- Toggle Editing
- Filter...
- Change Data Source...
- Set Layer Scale Visibility...
- Layer CRS
- Export
- Styles
- Add Layer Notes...
- Properties...

Processing Toolbox

- refactor
- Recently used
- Vector table
- Refactor fields

MapTiler ...

5.00 meters

Coordinate 1030170, 5911046 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K) Toggles the editing state of the current layer

The screenshot displays the QGIS interface with a map of a residential area. A context menu is open for the 'point' layer, with the 'Remove Layer...' option highlighted. The map shows several geographical features, including roads, buildings, and land parcels. Some features are labeled with identifiers like 'Point #1', 'Line#2', 'Polygone #1', 'Polygone #2', 'Polygone #3', 'Punto 53', and 'Point #3 - Modified'. A note at the bottom left of the map states 'one #7 This is My drawn polygon modified'. The Processing Toolbox is visible on the right side of the interface.

\*Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- Points
- point [6]
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  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Processing Toolbox

- refactor
- Recently used
- Vector table
  - Refactor fields

Remove layers and groups

Remove 1 legend entry?

Cancel

one #7 This is My drawn polygon modified

Type to locate (Ctrl+K)

Toggles the editing state of the current layer

Coordinate 1030170, 5911046

Scale 1:6608

Magnifier 100%

Rotation 0.0 °

Render

EPSG:3857

\*Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Save Project (Ctrl+S)

Layers

- Points
- Lines [3]
- Polygons [7]
- Apiary [40]
  - European honey bee [7]
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  - Pollen\_Consumption [8]

Processing Toolbox

- refactor
- Recently used
- Vector table
  - Refactor fields

Test from Offline editing

one #7 This is My drawn polygon modified

Coordinate 1030187, 5911044 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K) 1 legend entry removed.

The screenshot shows a QGIS desktop application window titled "Advanced Bee Farming Demo (QFieldCloud) — QGIS". The interface includes a top menu bar with options like Project, Edit, View, Layer, Settings, Plugins, Vector, Raster, Database, Web, Mesh, HCMGIS, Processing, and Help. Below the menu is a toolbar with various icons for file operations, selection, measurement, and analysis. The main workspace displays a map of a residential area with streets labeled in Italian (e.g., Via Grava, Via Tessa, Via Stradun). Overlaid on the map are several vector layers: Points (red), Lines (black), and Polygons (orange). Some polygons represent fields like Colza, Grass, and Lavender. A specific polygon is highlighted with a red starburst and labeled "Polygone #1". Another polygon is labeled "Polygone #2". A point feature is labeled "Point #1" and another is labeled "Point #3 - Modified". A processing tool named "Test from Offline editing" is shown as a dark purple ribbon-like shape with a red starburst. A note at the bottom left of the map says "one #7 This is My drawn polygon modified". The left sidebar lists the "Layers" panel with categories like Points, Lines, Polygons, Apiary, Fields, Basemap, and Tables. The right sidebar contains the "Processing Toolbox" with a search bar and a list of recent tools. The bottom status bar shows the coordinate (1030187, 5911044), scale (1:6608), magnification (100%), rotation (0.0°), and rendering settings (EPSG:3857).

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- Points
- Lines [3]
- Polygons [7]
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  - European honey bee [7]
  - Buckfast bee [13]
  - Carniolan honey bee [20]
- Fields [18]
  - Colza [1]
  - Grass [6]
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  - Dandelions [5]
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- Basemap
  - Online OpenStreetMap
  - Offline local osm
    - lines
    - buildings
    - landscape
- Tables
  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Processing Toolbox

- refactor
- Recently used
- Vector table
- Refactor fields

Synchronize Current Cloud Project

Coordinate 1031191, 5911166 Scale 1:6608 Magnifier 100% Rotation 0.0° Render EPSG:3857

Type to locate (Ctrl+K)

5.00 meters

Point #1

Line#2

Punto 53

Point #3 - Modified

Polygone #1

Polygone #2

Polygone #1

Polyone #7 This is My drawn polygon modified

Test from Offline editing

Advanced Bee Farming Demo (QFieldCloud) — QGIS

Project Edit View Layer Settings Plugins Vector Raster Database Web Mesh HCMGIS Processing Help

Layers

- Points
- Lines [3]
- Polygons [7]
- Apiary [40]
  - European honey bee [7]
  - Buckfast bee [13]
  - Carniolan honey bee [20]
- Fields [18]
  - Colza [1]
  - Grass [6]
  - Lavender [4]
  - Dandelions [5]
  - Weed [2]
- Basemap
  - Online OpenStreetMap
  - Offline local osm
    - lines
    - buildings
    - landscape
- Tables
  - Apiary\_Reviews [13]
  - Pollen\_Consumption [8]

Synchronizing project "OPENGIS/Advanced\_Bee\_Farming\_Demo"

QFieldCloud project name [OPENGIS/Advanced\\_Bee\\_Farming\\_Demo](#)

Local project directory C:\Users\SeqLaz\QField\cloud\OPENGIS\_Advanced\_Bee\_Farming\_Demo

Some of the files on QFieldCloud differ from the files stored in the local project directory.

Now you should choose what actions to perform on those files by clicking on the checkboxes in the file list below.

Checking the "local" action (under the computer icon) or "cloud" action (under the cloud icon) will mark that file as single source of truth and will cause the file to be overwritten either in the cloud or the local storage. All other files will not be affected.

Filename	Action
advanced_bee_farming_cloud.qgs	<input checked="" type="checkbox"/> Upload (will replace file on t...)
advanced_bee_farming_cloud_attachments.zip	<input checked="" type="checkbox"/> Upload (will replace file on t...)
Points_Fixed.gpkg	<input checked="" type="checkbox"/> Create file on the cloud

Prefer No Action   Prefer Local   Prefer Cloud

Cancel Perform Actions Help

Coordinate 1031191, 5911166 Scale 1:6608 Magnifier 100% Rotation 0.0 ° Render EPSG:3857

Type to locate (Ctrl+K)

Layers

Browser

Toolbox

