Fieldwork on Urban Expansion and Sustainable Development of Kwu Tung: (1) <u>Manual for Creating</u> <u>Layers with</u> **Collector for ArcGIS**



The Chinese University of Hong Kong Centre for Learning Sciences and Technologies

A. Prepare a Polygon Layer

1. Sign in to https://developers.arcgis.com/



| Sign In | esri |
|--|------|
| Username Username Password | |
| C Keep me signed in | |
| SIGN IN | |

2. Choose New Layer.

| ArcGIS for Develop | ers 🖾 Dashboard 🕂 👻 Get S | tarted Documentation Pricing Su | pport | | | | | |
|--------------------------|--------------------------------------|---------------------------------|---------------|-------------------|--|--|--|--|
| Dashbo | Dashboard | | | | | | | |
| ArcGIS for Developers | New Application | New Layer | Import Data | New Basemap Style | | | | |
| ArcGIS Online | Manage Content | New Web Map | New Web Scene | New Story Map | | | | |
| Select your preferred AF | Pls and SDKs for customized suggesti | ons and developer tips. | | | | | | |

3. Choose Create an Empty Layer.

| Dashboard / Layers / Create Layer Create New Layer | | P |
|---|-------------------------|---|
| | 🕏 Create an Empty Layer | |
| | Or | |
| | | |
| | Drop File Here | |
| | Or Co Colort File | |

4. Fill in the information of the layer (i.e. steps 1-3 below), and then press *Geometry*.

For the field *Title*, use "Landuse_polygons_name (e.g. Landuse_polygons_ChanTaiMan)"

Create New Laver

| ICal | CINC | ayer | |
|------|------|------|--|
| | | | |
| | | | |
| | | | |

| Details | Geometry | Fields | Settings | |
|-------------------------------|--------------------------------|-----------------------------|----------|---|
| New Layer Detai | ils 1 | | | |
| Landuse_polygons_ChanTai | Man | 2 | | ~ |
| Service Name | | × | | |
| https://services.arcgis.com/o | orgid/rest/services/ landuse_p | olygons_ch 🗸 /FeatureServer | | |
| | | | | |

5. Choose *Polygons*, and then press *Fields*.

| Details | Geometry | Fields | Settings | |
|----------------------------------|-------------------------------------|------------------------------|-----------------------|--|
| <u></u> | | | | |
| Points Lines V Polygons | | | | |
| The type of geographic features | your layer will store. | | | |
| Spatial Reference | 9 | | | |
| 4326 | | | | |
| The WKID for the coordinate syst | em of your layer. Recommended value | are 4326 (WGS 84 Lat/Lng) or | 102100 (Web Mercator) | |
| | | | | |
| < Details | | | | |

3

6. Fill in the *Name* and *Alias* of the fields 1 and 2, and then choose *Add Field*. Choose *Settings* when done.

| | Details | Geometry | Fi | elds | Settin | gs | |
|---------------------------|--------------------------------|----------|--|---|----------|----------|---|
| Fields | | | | | | | |
| Field Name | Field A | lias | Field Type | | Domain | Required | Ĩ |
| Layers need to have at le | east one data field. | | | | | | |
| Name Alias Type | Landuse Landuse String ¢ | | 2 ✓ The The | unique key used by t display name for this | the API. | | |
| No Domain () | | Code | d Values 🚯 | | R | ange 🗊 | |
| | | | + Add Fi | ld | | | |

7. Share the layer to *My Organization*, and then choose *Create Layer*.

| | Details | Geometry | Fields | Settings | |
|---|---|---|--------------------------------|-------------------------------|---|
| | | | | | |
| Attachment | Settings | | | | |
| Allow attach | ed images and other files to it | ndividual features. | | | |
| | | | | | |
| Share Layer | | | | | |
| Select an option Me (Private) | | | | | |
| My Organization | (Esri China (HK) Ltd.) | | | | • |
| Everyone (Public |) | | | | |
| Choose groups | arese groups: | | | | |
| There was an error los | ding groups. | | | | |
| These settings will | replace the current sharing a | uettings | | | |
| | consistence concern analiting a | | | | |
| Permissions | Settings | | | | |
| These settings app | ly to other ArcGIS Online users | with whom you have shared your | layer. You always have permiss | sion to edit your own layers. | |
| Foable editis | 10 | | | | |
| Keep track o | f created and updated feature | 05. | | | |
| Keep track o | f who created and last update | ed features. | | | |
| Enable Sync | (layer can be taken offline to | be viewed, edited, and synchron | nized). | | |
| What kind of editi | ng is allowed? | | | | |
| Add, update | , and delete features | | | | |
| Only update | feature attributes | | | | |
| Only add ne | w features | | | | |
| What features can | editors see? | | | | |
| Editors can s | ee all features | | | | |
| | inly see their own features (re | quires tracking) | | | |
| Editors can o | see any features, even those | they add | | | |
| Editors can o Editors can't | | | | | |
| Editors can o Editors can't What features can | editors edit? | | | | |
| What features can Editors can't What features can Editors can e | editors edit? dit all features | | | | |
| Editors can o Editors can't What features can Editors can o Editors can o | editors edit? dit all features mly edit their own features (re | rquires tracking) | | | |
| Editors can o Editors can't What features can Editors can o Editors can o What access do a | editors edit? rdit all features mly edit their own features (re nonymous editors (not signed | iquires tracking) d in) have? | | | |
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B. Prepare a Point Layer

8. Choose New Layer.

ArcGIS for Developers & Dashboard + - Get Started Documentation Pricing Support

| Dashbo | Dashboard | | | | | | |
|--------------------------|-------------------------------------|-------------------------|---------------|-------------------|---|--|--|
| ArcGIS for Developers | New Application | New Layer | Import Data | New Basemap Style | C | | |
| ArcGIS Online | Manage Content | New Web Map | New Web Scene | New Story Map | L | | |
| Select your preferred AF | 's and SDKs for customized suggesti | ons and developer tips. | | | | | |

9. Fill in the information of the layer (i.e. steps 1-3 below), and then choose *Geometry*.

For the *Title*, input "Landuse_points_name (e.g. Landuse_points_ChanTaiMan)" Create New Layer

| New Layer Detail | S 1 | | |
|-------------------------------|--------------------------------|---------------------------|---|
| Title | | | |
| Landuse_points_ChanTaiMan | | 2 | ~ |
| Service Name | | | |
| https://services.arcgis.com/c | orgid/rest/services/ landuse_p | olygons_ch /FeatureServer | |
| #cuhk × | | | ~ |

10. Choose *Points*, and then press *Fields*.

| | | Fleids | Settings |
|-----------------|-----|--------|----------|
| Geometry | | | |
| V Points | | | |
| Spatial Referen | nce | | |
| 4326 | | | |

11. Fill in the *Name* and *Alias* of the fields 1 and 2, and then choose *Add Field*. Choose *Settings* when done.

| | Details | Geomet | ry | Fields | | Settings | | |
|------------------------|-----------------------|---------|----------------|----------------------|-------------|-----------|----------|---|
| ields | | | | | | | | |
| Field Name | Fiel | d Alias | Field Type | | Domain | | Required | Û |
| Layers need to have at | least one data field. | | | | | | | |
| Alias Type | Landuse String \$ | | ~ | The display name for | this field. | | | |
| | • | 0 0 | Coded Values 👩 | | | 🕘 Range 🛭 | | |
| No Domain () | | | | | | | | |

12. Share the layer to *My Organization*, and then choose *Create Layer*.

| | Details | Geometry | Fields | Settings | _ |
|--|---|---|--|-------------------------------|---|
| Attachment Set | tings | | | | |
| Allow attached in | nages and other files to i | individual features. | | | |
| Share Layer | | | | | |
| Select an option | | | | | |
| My Organization (Esr | i China (HK) Ltd.) | | | | - |
| Everyone (Public) | | | | | |
| And members of thes | e groups: | | | | |
| Choose groups | | | | | |
| There was an error loading | groupe. | | | | |
| These settings will rep | lace the current sharing | settings. | | | |
| | | | | | |
| Dennelse i e e Cent | el | | | | |
| Permissions Set | tings | | | | |
| Permissions Set These settings apply to | tings other ArcGIS Online users | s with whom you have shared your l | ayer. You always have permis | sion to edit your own layers. | |
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| Permissions Set These strings apply to These | tings and ar AccS Subsequent and ar AccS Subsequent and and accessed and an any access are a to be taken allowed and accessed and accessed | with whom you have shared your I me and features. The interest, edited, and synchrono requires tracking) requires tracking) applies tracking) integrates tracking) | ayer. You always have permis | oon to and your own layers. | |

C. Prepare a Line Layer

| ArcGIS for Develop | ers 🐼 Dashboard + 🗸 Get | Started Documentation Pricing Su | pport | | | | | | |
|--------------------------|------------------------------------|----------------------------------|---------------|-------------------|--|--|--|--|--|
| Dashboard | | | | | | | | | |
| ArcGIS for Developers | New Application | New Layer | Import Data | New Basemap Style | | | | | |
| ArcGIS Online | Manage Content | New Web Map | New Web Scene | New Story Map | | | | | |
| Select your preferred AP | Pls and SDKs for customized sugges | tions and developer tips. | | | | | | | |

13. Fill in the information of the layer (i.e. steps 1-3 below), and then press *Geometry*.

For the *Title*, input "Landuse_lines_name (e.g. Landuse_lines_ChanTaiMan)" Create New Layer

| New Layer Detai | ils , | | | |
|------------------------------|---------------------------------|-----------------------------|---|---|
| Title | - | | | |
| Landuse_lines_ChanTaiMan | | 2 | | |
| Service Name | | | | |
| https://services.arcgis.com/ | /orgid/rest/services/ landuse_p | oolygons_ch 🗸 /FeatureServe | r | |
| Tags 3 | | | | |
| #cuhk × | | | | ~ |

14. Fill in the *Name* and *Alias* of the fields 1 and 2, and then choose *Add Field*. Choose *Settings* when done.

| | Details | Geometry | | Fields | | Settings | | |
|-------------------------------------|----------------------|----------|---------------------|-------------------------|-----------|-----------|----------|---|
| Fields | | | | | | | | |
| Field Name | Field A | lias | Field Type | | Domain | | Required | ŵ |
| Layers need to have at le | east one data field. | | | | | | | |
| Name | Landuse | _ | <u>~ 2 ~</u> | The unique key used by | the API. | | | |
| Alias Type | Landuse String \$ | | | The display name for th | is field. | | | |
| Alias Type No Domain () | Landuse String \$ | Code | ✓ Values () | The display name for th | is field. | 🔵 Range 🚯 | | |
| Alias Type No Domain (| Landuse String \$ | © Code | ed Values 👩 + Ad | The display name for th | is field. | 🔵 Range 🚯 | | |

15. Share the layer to *My Organization*, and then choose *Create Layer*.

| | Details | Geometry | Fields | Settings | _ |
|--|--------------------------------------|-------------------------------|---------------------------------|-------------------------------|---|
| Attachment Setti | ngs | | | | |
| Allow attached ima | iges and other files to in | dividual features. | | | |
| | | | | | |
| Share Layer | | | | | |
| Select an option Me (Private) | | | | | |
| My Organization (Esri C | hina (HK) Ltd.) | | | | |
| And mambass of these | | | | | |
| Choose groups | jioups. | | | | |
| There was an error loading gr | oups. | | | | |
| P | | | | | |
| inese settings will repla | be the current sharing si | ettings. | | | |
| Permissions Setti | ngs | | | | |
| These settings apply to ot | ther ArcGIS Online users v | with whom you have shared you | r layer. You always have permis | sion to edit your own layers. | |
| | | | | | |
| Enable editing. Keep track of creat | ed and updated feature | s | | | |
| Keep track of who | created and last update | d features. | | | |
| Enable Sync (layer | can be taken offline to b | e viewed, edited, and synchro | onized). | | |
| What kind of editing is a | llowed? | | | | |
| Add, update, and o | delete features | | | | |
| Only update featur Only add new feature | e attributes | | | | |
| | 5457 | | | | |
| What features can edito | rs see? | | | | |
| Editors can see all Editors can only se | eatures e their own features (rec | uires tracking) | | | |
| Editors can't see ar | iy features, even those t | hey add | | | |
| What features can editor | rs odit? | | | | |
| Editors can edit all | features | | | | |
| Editors can only ed | iit their own features (rea | quires tracking) | | | |
| What access do anonym | ious editors (not signed | in) have? | | | |
| The same as signed | d in editors | | | | |
| Only add new feat | ares, if allowed above (re | equires tracking) | | | |
| | | | | | |
| Who can manage edits? | | | | | |
| Who can manage edits? • You | | | | | |
| Who can manage edits? You Administrators | | | | | |
| Who can manage edits? You Administrators Data curators with th | e appropriate privileges | | | | |
| Who can manage edits? • You • Administrators • Data curators with th | e appropriate privileges | | | | |

D. Group Layers

16. In *Dashboard*, choose *Manage Layers*.

| ArcGIS for Develop | ers | Ø Dashboard +▼ Get St | arted | Documentation Pricing Sup | por | t | | | م | EDB EDB_CU1 ~ |
|------------------------------|------|------------------------------|-------|----------------------------------|-----|------------------------------|----------|--------------------------------|--------------|---------------------------|
| Dashbo | ba | rd | | | | | | | | |
| ArcGIS for Developers | New | Application | New | r Layer | Imp | port Data | New Base | map Style | Download API | s & SDKs |
| ArcGIS Online | Mana | age Content | New | v Web Map | Ne | w Web Scene | New Stor | / Мар | Launch Web A | ppBuilder |
| Apps | | | | | | New Application New St | | Launch Web AppBuild | er Manage | e Applications (4) |
| (LWP) Demo FBQ (River |) | |) | 火炭及香港科技園工業實 | | | - | ┿ Create New Application | Cre App1 | + Nate New Lication |
| App details | - | MS MAN App details | | 地考察(NWK) App details | | (YVONNE) App details | | | | |
| Layers | | | | | | | | | rt Data Mi | nnage Layers (31) |
| | | | | | | | | | | |
| Landuse_points_ChanTa Man | ai | Landuse_lines_ChanTaiMa n | a | Landuse_polygons_ChanT aiMan2 | | Landuse_lines_ChanTaiMa n | line_ | cyan | point_cyar | 1 |
| Layer details | | Layer details | | Layer details | | Layer details | Layer | details | Layer detai | ls |
| | | | | | | | | | | |

8

17. After entering the page of *Layers*, choose the *polygon* layer – "Landuse_polygons_ChanTaiMan"

| ashboard / Layers | 14 Hall | | EA | SH. | |
|---|-----------------------------|------------------------|-----------------------------|-----------------------------|--------------|
| Create Layer or Import Data | Search your layers | Q All sharing levels ♀ | Choose tags | | |
| What are Feature Layers? eature Layers store geographic data points, lines or polygons) in ArcGIS | □ Title | Tags | Created | Modified | Sharing |
| | Landuse_points_ChanTaiMan | #cuhk | Tue Jun 11 2019, 10:33AM | Tue Jun 11 2019, 10:33AM | Organization |
| ine. They have renderers that define ir visualization and can be analyzed and red | Landuse_lines_ChanTaiMan | #cuhk | Tue Jun 11 2019, 10:28AM | Tue Jun 11 2019, 10:28AM | Organization |
| Iding Data | Landuse_polygons_ChanTaiMan | #cuhk | Tue Jun 11 2019, 10:27AM | Tue Jun 11 2019, 10:27AM | Organization |

18. Press Open in Map Viewer.

| | Summary:No summary. | Share |
|------------|---|------------------------|
| | Created:Monday May 6 2019, 9:29PM Modified:Monday May 6 2019, 9:29PM | 🖻 Open in Map Viewer |
| | Tags: #cuhk | 🕜 Open in Scene Viewer |
| | | View in ArcGIS Online |
| | | |
| escription | | 🕑 View Service |
| escription | | I View Service |

19. Choose *Add*, and then *Search for Layers*. Choose the created point and line layers.



20. Press *Save* to save all layers.

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