

# Demonstrating CKAN's Customizing Look and Feel Features

Log in using the **system admin** user(ckanadmin).

Operate as shown in the figure below.

The screenshot shows the CKAN configuration interface. At the top, there is a navigation bar with links for Datasets, Organizations, Groups, About, and a search bar. Below the navigation bar, there is a header with a user icon, the username 'ckanadmin', and some status indicators. The main content area has a title 'Config' highlighted with a red circle and the number '2'. The configuration sections include:

- Site Title:** CKAN Demo-8715
- Custom Stylesheet:** css/main
- Site Tag Line:** (empty input field)
- Site logo:** 2024-09-10-012546.374693logo.svg (with a Remove button)
- About:** A text area containing a message about the project's purpose and goals, mentioning the Australian National University (ANU) and its capabilities for managing, sharing, and visualizing data. It also encourages users to discover CKAN's potential for better decision-making and collaboration. A note at the bottom says 'You can use Markdown formatting here'.
- Intro Text:** A text area containing a welcome message and a brief description of the demonstration project, mentioning the power of open data management and the capabilities of CKAN for managing, sharing, and visualizing data. It also encourages users to dive in and discover CKAN's potential. A note at the bottom says 'You can use Markdown formatting here'.
- Custom CSS:** A code editor containing a snippet of CSS: '.masthead { background-color: #00bbbb; }'

At the bottom right, there are two buttons: 'Reset' and 'Update Config'.

Fill in the content as follows

**Site Title [1]: CKAN Demo-8715**

**About:**

We are a team of students from the Australian National University (ANU) working on a project as part of our course curriculum. Our project focuses on demonstrating the capabilities of CKAN, an open-source data management system. CKAN is widely used by governments, research organizations, and communities around the world to publish, share, and manage open data.

Through this project, we aim to showcase CKAN's features, including data cataloging, metadata management, and data visualization, and how it can be customized to meet the specific needs of different organizations.

**Site logo [2]:** The site logo uses <https://ckan.org/static/img/ckan-dpg.svg> with slight modifications.

**Intro Text:**

Welcome to Our CKAN Demonstration Project.

Explore the power of open data management with our CKAN demonstration. As part of our coursework at the Australian National University (ANU), we have configured this CKAN instance to showcase its capabilities for managing, sharing, and visualizing data.

Dive in to discover how CKAN can help unlock the potential of your data for better decision-making and collaboration.

**Custom CSS: [3]**

```
.masthead {  
    background-color: #00bbbb;  
}
```

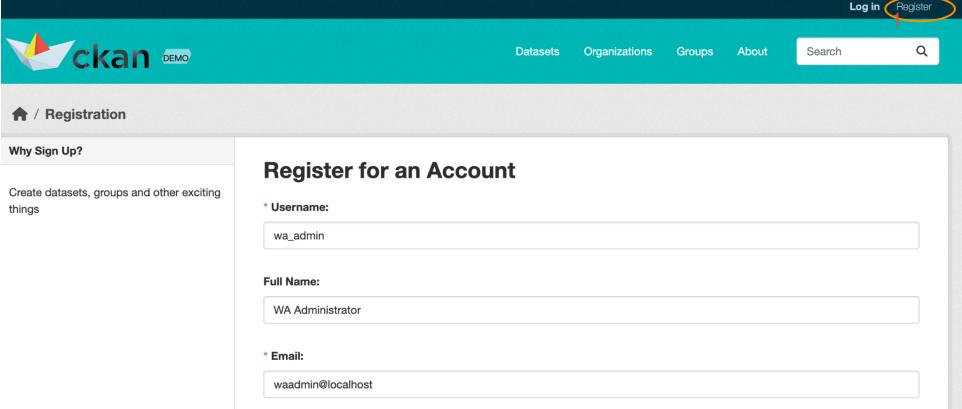
## Comment

- Using the CKAN admin interface to customize the site's look and feel was straightforward and effective. By updating the site title, about section, logo, and intro text, I was able to quickly configure the platform to reflect our project goals. The ability to apply custom CSS directly in the admin interface also made it easier to tweak visual elements like the background color.
- However, I noticed that features such as changing the featured image and setting the favicon, which currently require manual backend modifications, would be better integrated into this web-based interface. Including these options here would streamline the customization process, making it more intuitive for site administrators to manage all visual aspects without needing to access the server backend.

# Demonstrate "Register for an Account" & "Create an Organization"

## Register for an Account

Operate as shown in the figure below.



The screenshot shows the CKAN DEMO registration interface. At the top, there's a navigation bar with links for Datasets, Organizations, Groups, About, and a search bar. The main content area is titled "Register for an Account". It contains three input fields: "Username" (wa\_admin), "Full Name" (WA Administrator), and "Email" (waadmin@localhost). To the left of the form, there's a sidebar with a "Why Sign Up?" section and a note about creating datasets.

**Username:** wa\_admin

**Full Name:** WA Administrator

**Email:** waadmin@localhost

**Profile picture:** upload [4]

Then log in using this registered user.

Manage→Change details

**about:** Administrator of the State of Washington. Registered by Chuang Ma

# Create an Organization

The screenshot shows the CKAN interface for creating a new organization. The top navigation bar includes links for Datasets, Organizations (which is the active tab), Groups, About, and Search. The main content area has a title 'Create an Organization'. On the left, there's a sidebar with a link to 'What are Organizations?'. The main form fields are:

- Name:** State of Washington
- URL:** \* URL: www.ckandemo.site:8888/organization/state-of-washington [Edit](#)
- Description:** DATA.GOV -- State of Washington This is a demo. All datasets are from the website https://catalog.data.gov/organization/state-of-washington  
You can use Markdown formatting here
- Image:** [Upload](#) [Link](#)

A note at the bottom indicates: \* Required field. A blue 'Create Organization' button is located at the bottom right.

**Name:**

State of Washington

**URL:** State of Washington

**Description:**

DATA.GOV -- State of Washington This is a demo. All datasets are from the website  
<https://catalog.data.gov/organization/state-of-washington>

**Image:** upload

For an organization created by this user, the user becomes the default administrator of that organization.

## Register more users and create more organizations

### 1. National Oceanic and Atmospheric Administration, Department of Commerce

**Username:** noaa\_admin

**Full Name:** NOAA Administrator

**Email:** noaa\_admin@localhost

**About:** Administrator of the National Oceanic and Atmospheric Administration, Department of Commerce. Registered by Chuang Ma

**Organization Name:**

National Oceanic and Atmospheric Administration, Department of Commerce

**URL:** noaa.gov

**Description:**

DATA.GOV -- National Oceanic and Atmospheric Administration, Department of Commerce. This is a demo. All datasets are from the website <https://catalog.data.gov/organization/noaa-gov>

## 2. National Aeronautics and Space Administration

**Username:** nasa\_admin

**Full Name:** NASA Administrator

**Email:** nasa\_admin@localhost

**about:** Administrator of the National Aeronautics and Space Administration. Registered by Chuang Ma

**Organization Name:**

National Aeronautics and Space Administration

**URL:** nasa-gov

**Description:**

DATA.GOV -- National Aeronautics and Space Administration. This is a demo. All datasets are from the website <https://catalog.data.gov/organization/nasa-gov>

## 3. Earth Data Analysis Center, University of New Mexico

**Username:** edac\_admin

**Full Name:** EDAC Administrator

**Email:** edac\_admin@localhost

**about:** Administrator of the Earth Data Analysis Center, University of New Mexico. Registered by Chuang Ma

**Organization Name:**

Earth Data Analysis Center, University of New Mexico

**URL:** edac-unm-edu

**Description:**

This is a demo. The Earth Data Analysis Center (EDAC) at the University of New Mexico is an Applied Research Center that specializes in geospatial data development, management, analysis and applications. Through partnerships with collaborators in public health, emergency management and planning, resource management, transportation, water resources and many other domains, EDAC enables the integration of geospatial data, knowledge and technologies into solutions across these topic areas. All datasets are from the website <https://catalog.data.gov/organization/edac-unm-edu>

## 4. Department of the Interior

**Username:** doi\_admin

**Full Name:** Dol Administrator

**Email:** doi\_admin@localhost

**about:** Administrator of the Department of the Interior. Registered by Chuang Ma

**Organization Name:**

Department of the Interior

**URL:** doi-gov

**Description:**

This is a demo. The Department of the Interior (DOI) conserves and manages the Nation's natural resources and cultural heritage for the benefit and enjoyment of the American people, provides scientific and other information about natural resources and natural hazards to address

societal challenges and create opportunities for the American people, and honors the Nation's trust responsibilities or special commitments to American Indians, Alaska Natives, and affiliated island communities to help them prosper. All datasets are from the website  
<https://catalog.data.gov/organization/doi-gov>

## 5. Department of Energy

**Username:** doe\_admin

**Full Name:** DoE Administrator

**Email:** doe\_admin@localhost

**about:** Administrator of the Department of Energy. Registered by Chuang Ma

**Organization Name:**

Department of Energy

**URL:** doe-gov

**Description:**

DATA.GOV -- Department of Energy. This is a demo. All datasets are from the website

<https://catalog.data.gov/organization/doe-gov>

## 6. City of New York

**Username:** ny\_admin

**Full Name:** New York Administrator

**Email:** ny\_admin@localhost

**about:** Administrator of the City of New York. Registered by Chuang Ma

**Organization Name:**

City of New York

**URL:** city-of-new-york

**Description:**

DATA.GOV -- City of New York. This is a demo. All datasets are from the website

<https://catalog.data.gov/organization/city-of-new-york>

## Comment

- Registering users and creating organizations through CKAN was a smooth and straightforward process. The ability to quickly assign users as administrators for specific organizations ensures that roles and responsibilities are clearly defined.
- During the process of registering users and creating organizations, I noticed that there is no "About" field available when registering a new user. This information must be manually added later by logging in with the newly registered account and updating the details through the **Manage → Change** details option. It would be more efficient if the "About" section could be included during the initial registration process.
- Additionally, after all the required organizations have been created, it is recommended to set **ckan.auth.user\_create\_organizations = false** in the configuration file. This will disable the ability for users to create organizations, ensuring that only authorized administrators can manage organizational entities, which is important for maintaining control over the structure of the platform.

# Demonstrate “Adding a new dataset”

login using wa\_admin user

Operate as shown in the figure below.

The screenshot shows the CKAN 'Create Dataset' interface. At the top, there's a navigation bar with links for Datasets, Organizations, Groups, About, and Search. Below the navigation is a breadcrumb trail: Home / Dataset / Create Dataset. The main form has two steps: '1 Create Dataset' (highlighted in green) and '2 Add data'. The 'Create Dataset' step contains the following fields:

- Title:** Electric Vehicle Population Size History By County
- URL:** [www.ckandemo.site:8888/dataset/electric-vehicle-population-size-history-by-county](http://www.ckandemo.site:8888/dataset/electric-vehicle-population-size-history-by-county) [Edit](#)
- Description:** This shows the number of vehicles that were registered by Washington State Department of Licensing (DOL) each month. The data is separated by county for passenger vehicles and trucks.  
DOL integrates National Highway Traffic Safety Administration (NHTSA) data and the Environmental Protection Agency (EPA) fuel efficiency ratings with DOL titling and registration data to create this information.  
You can use Markdown formatting here
- Tags:** [battery-electric](#) [electric](#) [vehicle](#) [clean-energy](#)
- License:** Open Data Commons Open Database License (ODbL)
- Organization:** State of Washington
- Visibility:** Public
- Source:** <https://catalog.data.gov/dataset/electric-vehicle-population-size-history-by-county>
- Version:** 1.1
- Author:** Wa
- Author Email:** Wa@localhost
- Maintainer:** Wa
- Maintainer Email:** Wa@localhost
- Custom Field:** Key: Category Value: Transportation
- Custom Field:** Key: Homepage URL Value: <https://data.wa.gov/d/3d5d-sdqb>
- Custom Field:** Key: Publisher Value: data.wa.gov
- Custom Field:** Key: Value:

At the bottom, a note states: "The data license you select above only applies to the contents of any resource files that you add to this dataset. By submitting this form, you agree to release the metadata values that you enter into the form under the [Open Database License](#)". There is also a button labeled "Next: Add Data".

*The data from <https://catalog.data.gov/dataset/electric-vehicle-population-size-history-by-county>*

**Title:** Electric Vehicle Population Size History By County

**Description:**

This shows the number of vehicles that were registered by Washington State Department of Licensing (DOL) each month. The data is separated by county for passenger vehicles and trucks.

DOL integrates National Highway Traffic Safety Administration (NHTSA) data and the Environmental Protection Agency (EPA) fuel efficiency ratings with DOL titling and registration data to create this information.

**Other items:** ...

## Add various data resources to this dataset(csv, xml, json ...)

State of Washington / Electric Vehicle... / Edit / Add New Resource

The screenshot shows a step-by-step process for adding a new resource. Step 1, 'Create Dataset', is completed. Step 2, 'Add data', is currently being worked on. The 'File:' section shows a selected CSV file named 'Electric\_Vehicle\_Population\_Size\_History\_By\_County.csv'. The 'Name:' field is set to 'Comma Separated Values File CSV'. The 'Description:' field contains the note 'Some useful notes about the data'. Below it, a note says 'You can use Markdown formatting here'. The 'Format:' dropdown is set to 'eg. CSV, XML or JSON'. A small note below the dropdown says '(1) This will be guessed automatically. Leave blank if you wish.' At the bottom are buttons for 'Previous', 'Save & add another', and a highlighted 'Finish' button.

## Add other datasets to this organization

### 1. Electric Vehicle Population Data

*The data from <https://catalog.data.gov/dataset/electric-vehicle-population-data>*

### 2. Naselle Grays River Elementary

*The data from <https://catalog.data.gov/dataset/naselle-grays-river-elementary>*

### 3. City of Colfax: Police Activity - April 2nd, 2015

*The data from <https://catalog.data.gov/dataset/city-of-colfax-police-activity-april-2nd-2015>*

### 4. Washington Library Locations

*The data from <https://catalog.data.gov/dataset/washington-library-locations>*

### 5. Washington State Certified Public Accountants

*The data from <https://catalog.data.gov/dataset/cpa-search>*

### 6. Washington State Cities and Counties

*The data from <https://catalog.data.gov/dataset/washington-state-cities-and-counties>*

## Comment

- Creating a new dataset in CKAN through the Create Dataset page is quite user-friendly. One of the standout advantages is the ability to add unlimited custom fields, allowing administrators to tailor datasets to meet specific organizational needs.
- There are a few areas for improvement. First, when adding custom fields to a dataset, users should have the option to choose whether these fields are persistent within the organization without needing to involve the site administrator for global configuration changes. This would provide greater autonomy and flexibility for each organization's data management.
- Second, when uploading data files on the Add Data page, it would be helpful to include a progress bar, especially for larger files. This would improve the user experience by providing feedback on the upload status, making CKAN more accommodating to handling large datasets.

Log in with other organization administrator users and add several datasets to their organizations.

## Demonstrate “Data preview and visualization”

Click on the **Manage** button on the resource page and then on the **Views** tab. From here we can create new views, update or delete existing ones and reorder them.

The screenshot shows the CKAN interface for managing a resource. The top navigation bar includes links for Home, Organizations, State of Washington, Washington State Certified..., Comma Separated Values File, and Edit. Below the navigation is a toolbar with 'Edit resource', 'DataStore', 'Data Dictionary', and a 'Views' tab which is currently selected. On the left, there's a sidebar titled 'Comma Separated Values File' showing file formats: CSV (selected), RDF File, JSON File, and XML File. A button '+ Add new resource' is at the bottom of this sidebar. The main content area shows a list of resources under 'Resources': 'Comma Separated Values File' (selected), 'RDF File', 'JSON File', and 'XML File'. To the right of the resources is a dropdown menu titled 'New view' containing options: Audio, Basic Grid, Dashboard, Image, Line Chart, Navigable Map, Pie Chart, Table (which is highlighted), Video, and Website.

## DataTables view

Enable the View plugin **datatables\_view** in the CKAN configuration file (see the “ckan\_install” documentation for details).

Click **New view** and select the **Table**

Add the table view

The screenshot shows the CKAN 'Add view' interface for creating a new view named 'DataTables view'. The interface includes fields for Title, Description, Filters, Date format, and Show Columns, along with a preview and add button at the bottom.

**What's a view?**  
A view is a representation of the data held against a resource

**Title:** DataTables view

**Description:**  
eg. Information about my view  
You can use Markdown formatting here

**Filters:**  
**Add Filter**

List view/Responsive display

**Ellipsis length:** 0  
Length at which data will be truncated with an ellipsis for display. Set to zero for no truncation, and for data to be wrapped at column name width instead.

**Date format:**  
Moment.js date format to use for displaying dates (see Moment.js cheatsheet). If NONE, the raw timestamp value will be shown.

**Show Columns:**

Column	Label
<input checked="" type="checkbox"/> _id	
<input checked="" type="checkbox"/> First Name	
<input checked="" type="checkbox"/> Middle Name	
<input checked="" type="checkbox"/> Last Name	
<input checked="" type="checkbox"/> Suffix	
<input checked="" type="checkbox"/> City	
<input checked="" type="checkbox"/> State	
<input checked="" type="checkbox"/> Country	
<input checked="" type="checkbox"/> License Number	
<input checked="" type="checkbox"/> Original Issue Date	
<input checked="" type="checkbox"/> Expiration Date	
<input checked="" type="checkbox"/> Status	
<input checked="" type="checkbox"/> Last Updated	
<input checked="" type="checkbox"/> Board Order	

**Preview** **Add**

**Title:** DataTables view --all

**Filters:** We can apply filters to display only the data that meets specific criteria.

**Ellipsis length:** 0

**Show Columns:** We can select which columns to display.

## The result

_id	First Name	Middle Name	Last Name	Suffix	City	State	Country	License Number	Original Issue Date
1	Li Nong		Wang		CALGARY		Canada	39616	09/05/2019
2	Mark	A.	Greenfield		Silverdale	WA	United States	05292	08/14/2012
3	Wendy	S.	Mecham		Centralia	WA	United States	23942	02/25/2003
4	Michael	Charles	Plato		Raymond	WA	United States	18568	05/28/1996
5	Miki		Fukai		TOKYO		Japan	41641	01/22/2021
6	Masaya		Takasu		Tokyo		Japan	41864	02/25/2021
7	Rose		Eilts		OLYMPIA	WA	United States	12364	08/12/1988
8	Mary	F.	Ashby		EDMONDS	WA	United States	47629	02/23/1979
9	Ruth Ann		Hodel		Lake Forest	WA	United	06051	09/14/1979

The DataTables view in CKAN provides several powerful features for interacting with data, making it easier to explore and analyze datasets. Some key features include:

1. Multi-column sorting: Users can sort data by multiple columns to organize information according to specific needs.
2. Search and filter: Built-in search and filtering options allow users to quickly find and display data that meets specific criteria.
3. Paginated views: Large datasets are automatically split into pages, improving performance and making data easier to browse.
4. Column visibility: Users can choose which columns to show or hide, customizing the view to focus on relevant information.
5. Responsive design: The view adjusts to different screen sizes, ensuring a good user experience on both desktops and mobile devices.

## Comment

- This plugin requires the data to be structured and stored in the DataStore (csv).
- The DataStore is distinct but complementary to the FileStore. In contrast to the FileStore which provides ‘blob’ storage of whole files with no way to access or query parts of that file, the DataStore is like a database in which individual data elements are accessible and queryable.

## Text view

Enable the View plugin **text\_view** in the CKAN configuration file (see the “ckan\_install” documentation for details).

Click **New view** and select the **Table**

### Add the Text view

The screenshot shows the CKAN 'Add view' interface for creating a new view named 'Text view'. The interface includes fields for Title, Description, and Filters, along with 'Preview' and 'Add' buttons.

**Title:** Text view

**Description:** eg. Information about my view  
You can use [Markdown formatting here](#)

**Filters:** [Add Filter](#)

**Buttons:** Preview, Add

# The result

## JSON File

URL: <http://www.ckandemo.site:8888/dataset/3b482405-62d5-4337-8a41-3e287d7ec657/resource/015b2909-8f68-49ca-9b7d-09e6b82d9b82/download/rows-4.json>

### Dataset description:

This dataset contains FIPS (Federal Information Processing Standard), GNIS (Geographic Name Information System common) codes for identifying Washington state counties cities and towns....

Source: [Washington State Cities and Counties](#)

Text view

Edit resource Views Download

Fullscreen Embed

```
{ "meta": { "view": { "id": "gkF-7usg", "name": "Washington State Cities and Counties", "assetType": "dataset", "attention": "Office of Financial Management", "category": "demographics", "createdAt": "1690997625", "description": "This dataset contains FIPS (Federal Information Processing Standard), GNIS (Geographic Name Information System common) co", "displayType": "table", "downloadCount": 813, "hideFromCatalog": false, "hideFromDatasetJson": false, "licensedId": "ODOL", "locked": false, "newBackend": true, "numberOfComments": 0, "oid": 39837012, "provenance": "official", "publishedApproved": false, "publicationDate": "1690996902", "publicationGroup": 19243043, "publicationStage": "published", "rowsUpdatedAt": "1690999686", "rowsUpdatedBy": "w3ya-j23t", "tableId": 19243043, "totalTimesRan": 0, "viewCount": 1239, "viewLastModified": 1695154533, "viewType": "tabular", "approvals": [ { "reviewedAt": "1690999692", "reviewedAutomatically": true, "state": "approved", "submissionId": 5673815, "submissionObject": "public_audience_request", "submissionOutcome": "change_audience", "submittedAt": "1690999692", "targetAudience": "public", "user": "w3ya-j23t" } ] } }
```

## Comment

- The Text view is a simple and effective way to display plain text data directly in the browser.
- Displays files in XML, JSON or plain text based formats with the syntax highlighted.
- However, there are some performance issues when handling larger files. The view tends to slow down significantly, and in some cases, the page becomes unresponsive or the file fails to load altogether. To improve this, it would be helpful to load only a portion of the file initially, with an option to continue loading more data as needed. This approach would enhance the user experience and prevent timeouts or failures when dealing with large datasets.

## Image view

Enable the View plugin **image\_view** in the CKAN configuration file (see the “ckan\_install” documentation for details).

Click **New view** and select the **Image**

## Add the Image view

autics and... / ATom: Merged Atmospheric... / PNG , Get a related visualization / Edit / Add view

[Add view](#) [All views](#) [View view](#)

\* Title:

Description:  
eg. Information about my view  
You can use [Markdown formatting here](#)

Filters: [Add Filter](#)

Image url:  [Preview](#) [Add](#)

## The result

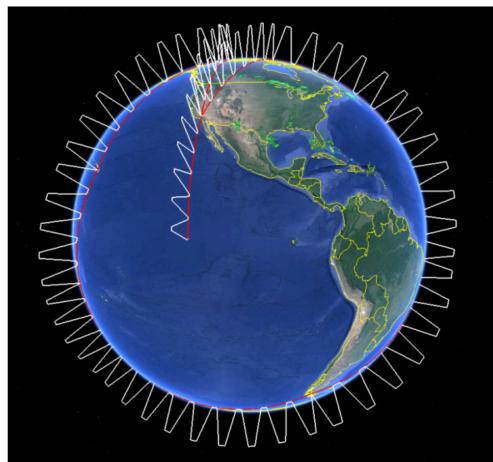
### Dataset description:

This dataset provides information on greenhouse gases and human-produced air pollution, including atmospheric concentrations of carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), tropospheric ozone...

Source: [ATom: Merged Atmospheric Chemistry, Trace Gases, and Aerosols](#)

[Image view](#)

[Fullscreen](#) [Embed](#)



## Comment

- It allows users to quickly view and assess image files without needing external software, making it ideal for datasets involving maps, graphs, or other visual content.
- Notably, the Filters and Add Filter buttons on the page do not seem to function as expected.

## Video view

Enable the View plugin **video\_view** in the CKAN configuration file (see the “ckan\_install” documentation for details).

Click **New view** and select the **Video**

### Add the video view

Aeronautics and... / Process and robot data... / Robot Workcell Video / Edit / Add view

The screenshot shows the 'Add view' interface for a 'Video' type. At the top right are 'All views' and 'View view' buttons. The main area has fields for 'Title' (set to 'Video view'), 'Description' (with placeholder text and Markdown formatting note), 'Filters' (with an 'Add Filter' button), 'Video url' (with placeholder text), and 'Poster url' (with placeholder text). At the bottom right are 'Preview' and 'Add' buttons.

**Title:**  
Video view

**Description:**  
eg. Information about my view  
You can use [Markdown formatting](#) here

**Filters:**  
[Add Filter](#)

**Video url:**  
eg. <http://example.com/video.mpeg> (if blank uses resource url)

**Poster url:**  
eg. <http://example.com/poster.jpg>

[Preview](#) [Add](#)

## The result

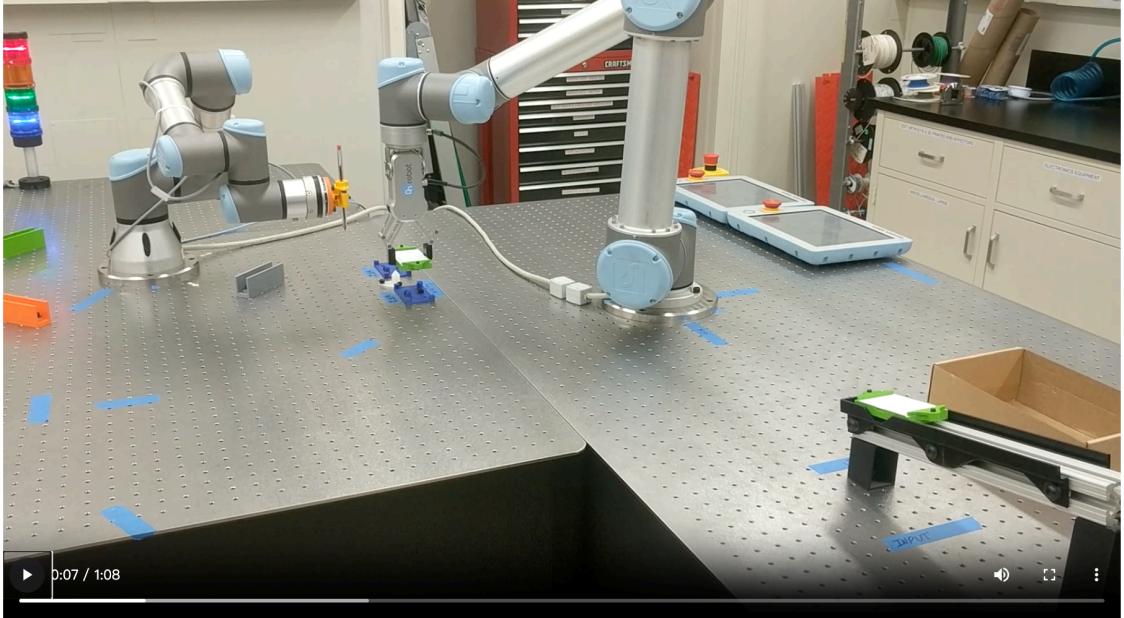
### Robot Workcell Video

[Edit resource](#) [Views](#) [Download](#)

URL: <http://www.ckandemo.site:8888/dataset/2bf6d77e-c331-41c7-9a94-d5979a45ff3e/resource/d40fa767-28bd-470a-96bd-7a78be61aae7/download/robotvid.mp4>

This video shows a single part moving through the workcell (the workcell is completing a single cycle).

[Video view](#) [Fullscreen](#) [Embed](#)



## Comment

- There are three supported video formats: MP4, WebM, and OGG.
- The option to set a poster image. A key improvement would be to add a poster image upload function directly in the view configuration. Currently, users have to provide a URL for the poster image, which can be inconvenient. Enabling the upload of poster images from the local file system would streamline the process and without relying on external image hosting.

## Audio view

Enable the View plugin **audio\_view** in the CKAN configuration file (see the “ckan\_install” documentation for details).

Click **New view** and select the **Audio**

## Add the audio view

[Add view](#)  [All views](#)  [View view](#)

\* **Title:**  
Audio View

**Description:**  
eg. Information about my view  
You can use Markdown formatting here

**Filters:**  
[Add Filter](#)

**Audio url:**  
eg. <http://example.com/audio.mp3> (if blank uses resource url)

[Preview](#) [Add](#)

## The result

**D13-terebinthifolius1-t08-fil250-10k-20s.wav**  [Edit resource](#)  [Views](#)  [Download](#)

URL: <http://www.ckandemo.site:8888/dataset/d20c8dcb-9351-4c4d-81cb-c4b361495294/resource/eeddc3e6-77a6-4210-8280-4b5ea06f63b9/download/d13-terebinthifolius1-t0...>

**Dataset description:**  
This archive of .wav format sound recordings provided by the ARS Center for Medical, Agricultural, and Veterinary Entomology supports the detection and control of hidden insect...  
Source: [Bug Bytes sound library: stored product insect pest sounds](#)

[Audio](#)  [Fullscreen](#)  [Embed](#)

▶ 0:18 / 0:25

## Comment

- The view rely on HTML5 <audio> tag, there are three supported audio formats: MP3, WAV, and OGG.
- A notable issue is that the colors of the played and unplayed portions of the progress bar are quite similar, which can make it difficult to distinguish between them during playback. Adjusting the color contrast between these sections would significantly improve the user experience, making it easier to track playback progress at a glance.

## Web page view

Enable the View plugin **webpage\_view** in the CKAN configuration file (see the “ckan\_install” documentation for details).

Click **New view** and select the **Website**

### Add the Website view

[Add view](#) [All views](#) [View view](#)

\* Title: Web page view

Description:  
eg. Information about my view  
You can use Markdown formatting here

Filters: [Add Filter](#)

Web Page url:  
eg. <http://example.com> (if blank uses resource url)

[Preview](#) [Add](#)

## The result

[/ Organizations / National Aeronautics and... / India Village-Level... / Download this dataset](#)

**Download this dataset** [Edit resource](#) [Views](#) [Download](#)

URL: <https://sedac.ciesin.columbia.edu/data/set/india-india-village-level-geospatial-socio-econ-1991-2001/data-download>

Data Download Page

Source: India Village-Level Geospatial Socio-Economic Data Set: 1991, 2001

[Web page view](#) [Fullscreen](#) [Embed](#)

 **SOCIOECONOMIC DATA AND APPLICATIONS CENTER (SEDAC)**  
A Data Center in NASA's Earth Observing System Data and Information System (EOSDIS) — Hosted by CIESIN at Columbia University

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**Collection Overview** **India Village-Level Geospatial Socio-Economic Data Set, v1 (1991, 2001)**

[Data Sets \(3\)](#) [Set Overview](#) [Data Download](#) [Maps](#) [Map Services](#) [Documentation](#) [Metadata](#)

**Downloads**

**View Recommended Citation(s)**

Files for 1991 and 2001 are in Shapefile (.shp) and Geodatabase (.gdb) formats. Data for 22 and 28 states are provided for 1991 and 2001, respectively. In addition, data for Union Territories are available for both 1991 and 2001. You must first select the year 1991 or 2001 from the Temporal tab, then choose state(s) of India from the list. Once you have made your selection, click on "Create Download".

**Map Gallery (9)** **Map Services (13)** [Temporal](#) [Create Download](#)

## Comment

- Adds an <iframe> tag to embed the resource URL. This is particularly useful for showcasing external resources, such as dashboards, reports, or other web-based content, without requiring users to leave the CKAN platform.
- Do not activate this plugin unless you trust the URL sources. It is not recommended to enable this view type on instances where all users can create datasets.
- There are some important limitations to consider. If the target website has disabled cross-site iframe embedding, this view will not work, rendering the content inaccessible within CKAN.

## PDF view

Install ckanext-pdfview, and enable the View plugin **pdf\_view** in the CKAN configuration file (see the “ckan\_install” documentation for details).

Click **New view** and select the **PDF**

### Add the PDF view

The screenshot shows the CKAN 'Add view' interface. At the top, there are buttons for 'Add view' (with a pencil icon), 'All views' (with a back arrow icon), and 'View view' (with a magnifying glass icon). The main form area has the following fields:

- Title:** A text input field containing 'PDF View'.
- Description:** A text area with placeholder text 'eg. Information about my view'. Below it, a note says 'You can use Markdown formatting here'.
- Filters:** A button labeled 'Add Filter'.
- PDF url:** A text input field with placeholder text 'eg. http://example.com/document.pdf (if blank uses resource url)'.
- Buttons at the bottom right:** 'Preview' and 'Add'.

## The result

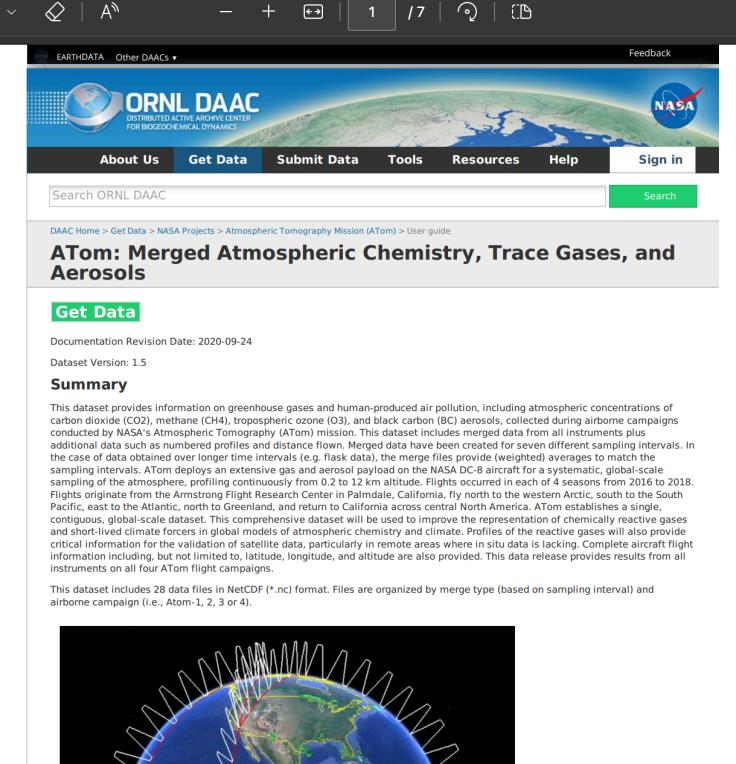
**PDF, View documentation related to this dataset**

URL: [http://www.ckandemo.site:8888/dataset/6509248d-5191-45f6-a2d5-80aa19b53d59/resource/6fce4e57-ce17-4a57-97e7-74f38664d999/download/atom\\_merge.pdf](http://www.ckandemo.site:8888/dataset/6509248d-5191-45f6-a2d5-80aa19b53d59/resource/6fce4e57-ce17-4a57-97e7-74f38664d999/download/atom_merge.pdf)

**Dataset description:**

This dataset provides information on greenhouse gases and human-produced air pollution, including atmospheric concentrations of carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), tropospheric ozone (O<sub>3</sub>), and black carbon (BC) aerosols, collected during airborne campaigns conducted by NASA's Atmospheric Tomography Mission (ATom). This dataset includes merged data from all flights, plus additional data such as numbered profiles and discrete flown. Merged data have been created for seven different sampling intervals. In the case of data obtained over longer time intervals (e.g. flask data), the merge files provide (weighted) averages to match the sampling intervals. ATom deploys an extensive gas and aerosol payload on the NASA DC-8 aircraft for a systematic, global-scale sampling of the atmosphere, profiling continuously from 0.2 to 12 km altitude. Flights occurred in each of 4 seasons from 2016 to 2018. Flights originate from the Armstrong Flight Research Center in Palmdale, California, fly north to the western Arctic, south to the South Pacific, east to the Atlantic, north to Greenland, and return to California across central North America. ATom establishes a single, contiguous, global-scale dataset. This comprehensive dataset will be used to improve the representation of chemically reactive gases and short-lived climate forcing in global models of atmospheric chemistry and climate. Profiles of the reactive gases will also provide critical information for the validation of satellite data, particularly in remote areas where in situ data is lacking. Complete aircraft flight information including, but not limited to, latitude, longitude, and altitude are also provided. This data release provides results from all instruments on all four ATom flight campaigns.

This dataset includes 28 data files in NetCDF (\*.nc) format. Files are organized by merge type (based on sampling interval) and airborne campaign (i.e., Atom-1, 2, 3 or 4).



The screenshot shows the ORNL DAAC website with the title "ATom: Merged Atmospheric Chemistry, Trace Gases, and Aerosols". Below the title, there is a "Get Data" button and a summary text about the dataset. At the bottom of the page, there is a map of the Earth with a red line indicating the flight path of the ATom mission.

## Comment

- This extension provides a view plugin for PDF files using an html object tag. This makes it convenient for users to view PDF documents without needing to download them, allowing for quick previews and enhanced interaction with document-based datasets.
- There are a few considerations. If the PDF files are hosted externally (on a different server than CKAN), the resource\_proxy plugin must also be enabled.

## Geo view

Install ckanext-geoview, and enable the View plugin **geo\_view** in the CKAN configuration file (see the “ckan\_install” documentation for details).

Click **New view** and select the **Map Viewer**

## Add the Map Viewer

[Add view](#)  [All views](#)  [View view](#)

**\* Title:**  
Map View

**Description:**  
eg. Information about my view  
You can use [Markdown formatting here](#)

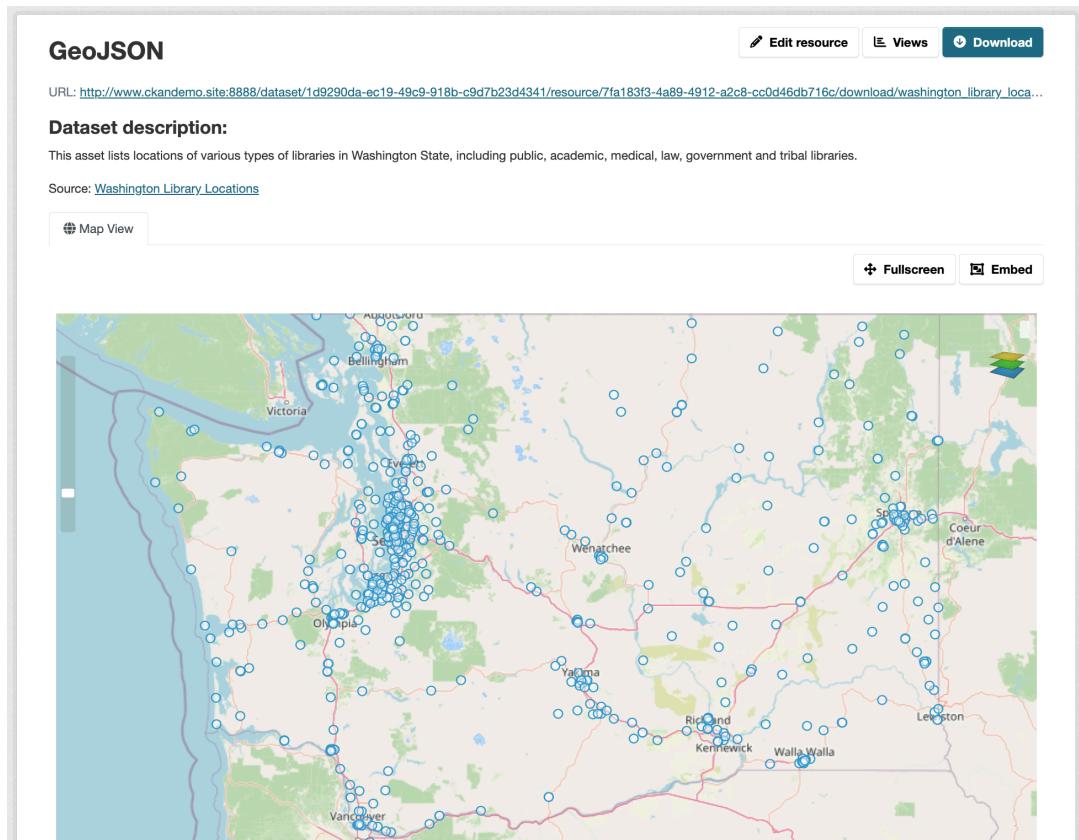
**Filters:**  
[Add Filter](#)

**Display Feature Info on Hover**

**Feature style descriptor:**

[Preview](#) [Add](#)

## The result



## Comment

- This extension contains view plugins to display geospatial files and services in CKAN. Including OpenLayers Viewer, Leaflet GeoJSON Viewer, Leaflet WMTS Viewer, Leaflet ESRI and Shapefile Viewer.
- The formats and services supported are: Web Map Service (wms), Web Feature Service(wfs), geojson, gml, kml, ArcGIS REST API(arcgis\_rest), Google Fusion Tables(gft)
- Though for this case, it showcases the handling of GeoJSON data in an OpenLayers environment.

## Choropleth map

Install ckanext-mapviews, and enable the View plugin **choroplethmap** and **navigablemap** in the CKAN configuration file (see the “ckan\_install” documentation for details).

To start creating choropleth maps, we need two things: the data you want to plot, and a GeoJSON defining the geographical regions you'd like to plot it. The data itself needs to be in a resource inside the DataStore, and the map needs to be in the same domain as CKAN itself

We create a new Dataset for demo:

<http://www.ckandemo.site:8888/dataset/the-internet-usage-per-100-people-in-2012-all-across-the-world>

Click **New view** and select the **Navigable Map**

Add the Navigable Map

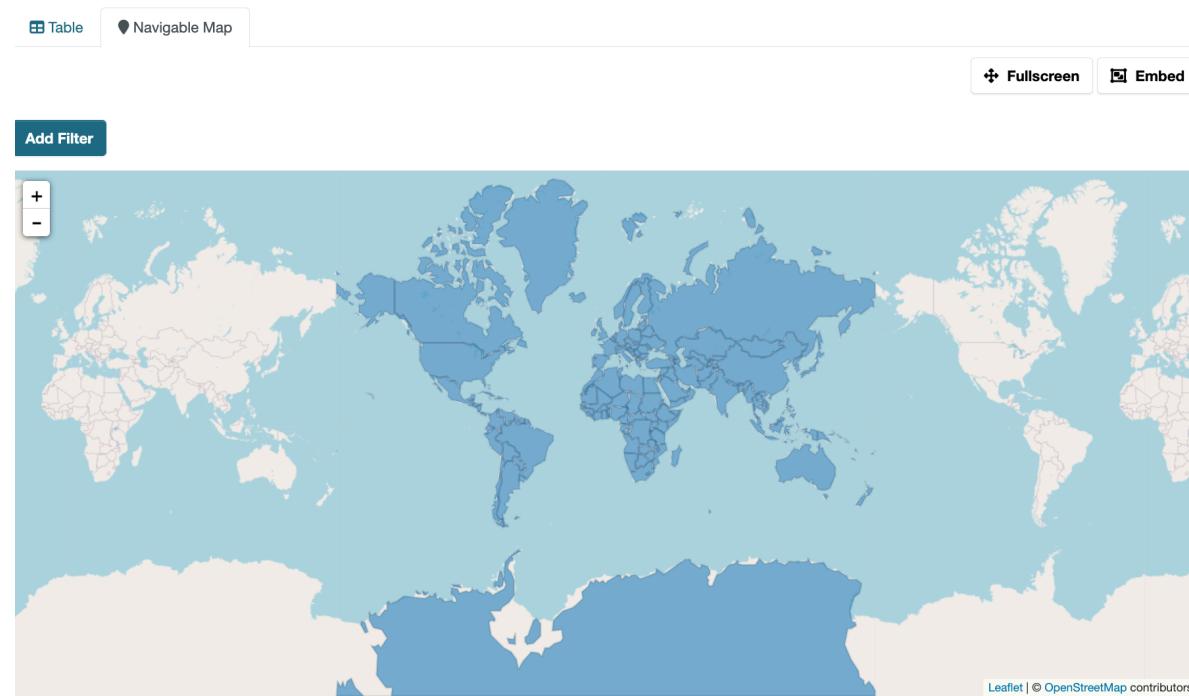
The screenshot shows the CKAN 'Add view' interface for creating a new view. The 'View type' dropdown is set to 'Navigable Map'. The configuration fields are as follows:

- Title:** Navigable Map
- Description:** eg. Information about my view
- Filters:** Add Filter
- GeoJSON Resource:** ne\_110m\_admin\_0\_countries.geojson
- GeoJSON Key Field:** wb\_a3
- Key:** Country Code
- Label:** Country Name
- Redirect to URL:** If left blank, clicking on a region will update the filters on the same page

At the bottom right are 'Preview' and 'Add' buttons.

To identify each country, we have its name and code. We need to have either attribute in the GeoJSON feature's properties. We can map **Country Code** with **WB\_A3**.

## The result



## Comment

The ckanext-mapviews extension adds robust mapping capabilities to CKAN, allowing for the creation of interactive maps, including navigable and choropleth maps.

There are two issues:

The choroplethmap has been enabled in the configuration file, but there is no "Choropleth Map" option available in the chart types list on the resource page.

When creating a navigablemap, the Value Attribute field is missing from the page, preventing the full setup of the map.

Both issues may require checking the plugin's integration with the CKAN version being used or reviewing the plugin's setup documentation for possible misconfigurations.

## Basic charts

Install ckanext-basicchartss, and enable the View plugin **linechart barchart piechart basicgrid** in the CKAN configuration file (see the "ckan\_install" documentation for details).

Dataset:

<http://www.ckandemo.site:8888/dataset/electric-vehicle-population-size-history-by-county>

## Add the Pie Chart

Add view    All views    View view

**Title:**  
Pie chart

**Description:**  
eg. Information about my view  
You can use Markdown formatting here

**Filters:**  
[Add Filter](#)

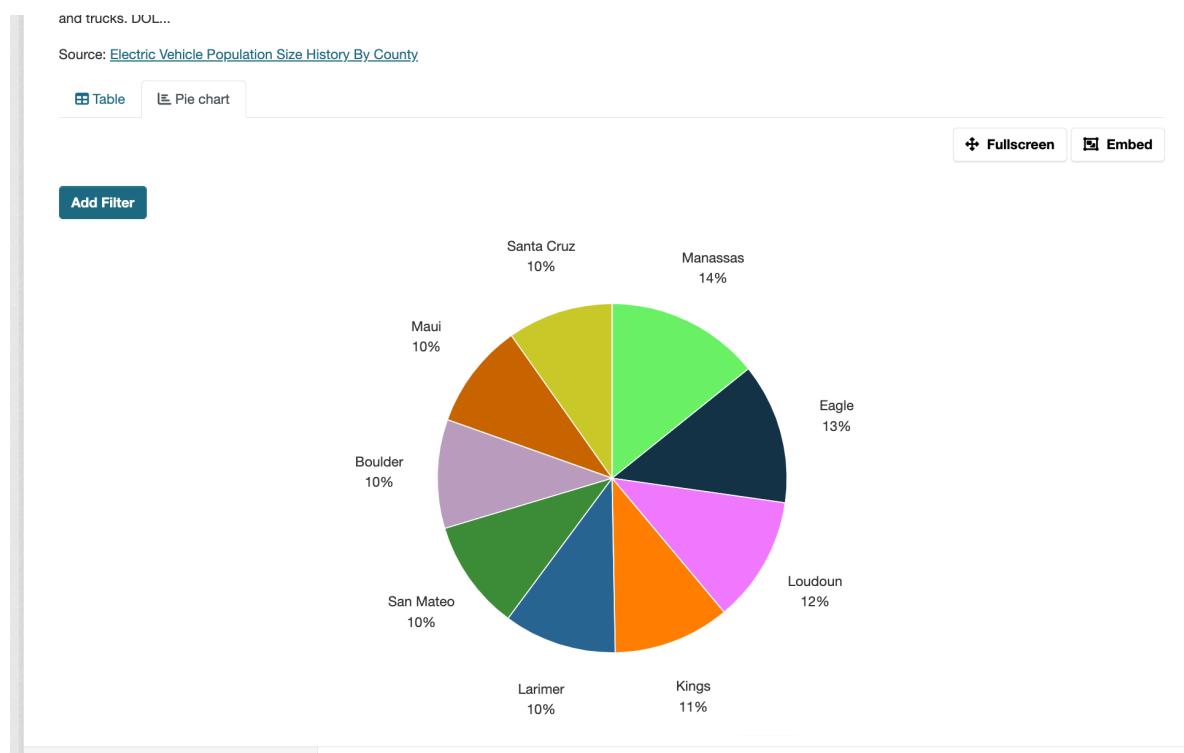
**\* Group by:**  
County

**\* Y Axis:**  
Percent Electric Vehicles

Show groups' legend

[Preview](#) [Add](#)

## The result



## Add the Line chart

[Add view](#)  [All views](#)  [View view](#)

\* Title:

Description:   
eg. Information about my view  
You can use Markdown formatting here

Filters: [Add Filter](#)

Group by:

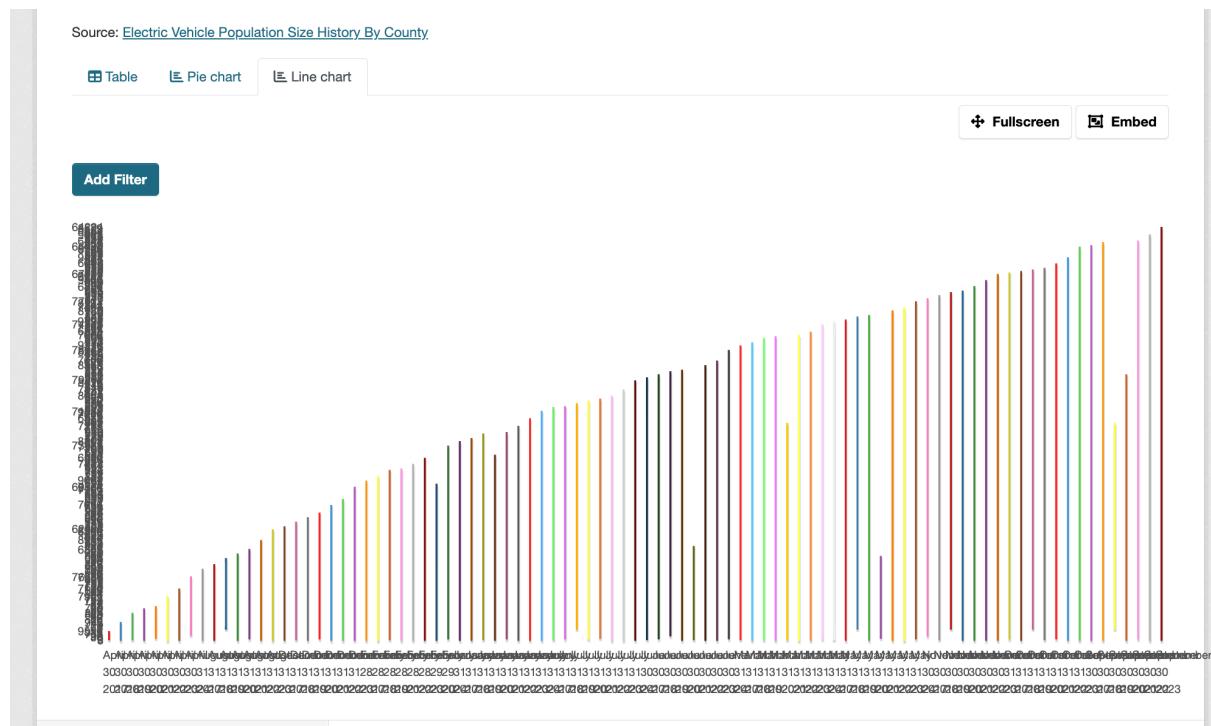
\* Y Axis:

\* X Axis:

Show groups' legend

[Preview](#) [Add](#)

## The result



## Add the Basic Grid

[Add view](#) [All views](#) [View view](#)

\* Title:

Description:   
eg. Information about my view  
You can use Markdown formatting here

Filters: [Add Filter](#)

Fields: [Date](#) [County](#) [Battery Electric Vehicles \(BEVs\)](#) [Total Vehicles](#) [Percent Electric Vehicles](#)

Orientation:

[Preview](#) [Add](#)

## The result

and trucks. DUL...

Source: [Electric Vehicle Population Size History By County](#)

[Table](#) [Pie chart](#) [Line chart](#) [Basic Grid](#) [Fullscreen](#) [Embed](#)

[Add Filter](#)

Date	County	Battery Electric Vehicles (BEVs)	Total Vehicles	Percent Electric Vehicles
January 31 2021	Portsmouth	0	76	1.32
November 30 2022	Clark	39	81984	0.05
August 31 2022	Wahkiakum	24	3114	1.16
February 28 2023	Adams	1	35	2.86
June 30 2019	Pend Oreille	4	9535	0.09
November 30 2019	Douglas	65	28379	0.36
September 30 2022	Cook	2	198	1.01
January 31 2023	Nassau	2	31	6.45
September 30 2019	Polk	1	78	1.28
December 31 2023	Atlantic	1	11	9.09
April 30 2018	Bexar	2	786	0.51
January 31 2022	Okanogan	0	16675	0.00
March 31 2024	Polk	1	19	10.53
November 30 2022	Kittitas	294	29917	1.29
December 31 2020	Pierce	2824	559739	0.82
June 30 2024	Clallam	30	21125	0.14

## Comment

- The extension's ability to filter data, define axes, and group information provides users with flexible options for data representation. The charts are relatively easy to set up and can effectively visualize various data types, including numeric, text, and date. The grouping feature is particularly useful for comparing data across different categories or time periods.
- In the line chart, the x and y axis labels are stacked on top of each other, making them difficult to read.
- The Basic Grid functionality appears to be redundant, as it can be fully replaced by the existing Table View in CKAN. This duplication of features may lead to confusion for users and unnecessary complexity in the system.
- There's an issue with the Bar Chart option not appearing when creating a view, despite barchart being enabled in the configuration file.

## Dashboard

Create data previews and visualizations for all data resources.

## Demonstrate “table designer” & “Data Dictionary”

Enable the **tabledesigner** plugin and Setting up the DataStore  
Install ckanext-excelforms and add Enable **tabledesigner** plugin  
(see the “ckan\_install” documentation for details).

## Creating a Table Designer resource

from <http://www.ckandemo.site:8888/dataset/table-designer-test>

The screenshot shows the CKAN Dataset creation interface for a 'Table Designer' resource. At the top, there are buttons for 'Upload', 'Link', and 'Table Designer', with 'Table Designer' being the active tab. A button labeled 'Create a custom table for your data' is also present. The main form has two steps: '1 Create Dataset' and '2 Add data'. Step 1 is highlighted in green. The 'Name' field contains 'My Table Designer resource'. The 'Description' field contains 'Some useful notes about the data'. Below the description, a note says 'You can use Markdown formatting here'. The 'Format' dropdown is set to 'eg. CSV, XML or JSON'. A note at the bottom of the format dropdown says 'This will be guessed automatically. Leave blank if you wish'. At the bottom right of the form are buttons for 'Previous', 'Save & add another', and 'Finish'.

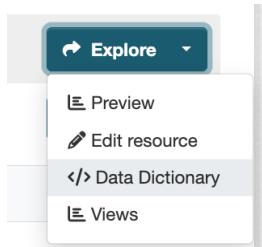
# Creating fields with the Data Dictionary

As shown in the image, both paths can navigate to the **Data Dictionary**.

My Table Designer resource

[Edit resource](#) [Data Dictionary](#) [Views](#) [Data API](#)

OR



A newly created resource will have no fields defined. Use the **Add Field** button in the Data Dictionary form to add fields for your data.

ton / Occupational Employment... / My Table Designer resource / [Edit](#)

[Edit resource](#) [DataStore](#) [</> Data Dictionary](#) [Views](#) [View resource](#)

Field 1. ID (Integer) ▾

Field 2. Year (Text) ▾

Field 3. Area code (Text) ▾

Field 4. Area name (Text) ▾

Field 5. SOC code (Text) ▾

[Remove field](#)

**Obligation:**  
Optional

**Pattern:**  
^\\d{2}-\\d{4}\$  
Regular expression to match against the field, e.g. AB-\\d{6} for text starting with AB- and ending with 6 digits

**Label:**  
SOC code

**Description:**  
You can use Markdown formatting here

Field 6. Occupational title (Text) ▾

Field 7. Employment (Integer) ▾

Field 8. Average wage (Numeric) ▾

Field 9. 25th Percentile (Numeric) ▾

Field 10. 50th Percentile (Numeric) ▾

Field 11. 75th Percentile (Numeric) ▾

Field 12. Annual wage (Numeric) ▾

[+ Add field](#) [Save](#)

This is a screenshot of the 'Edit' page for a resource named 'My Table Designer resource'. The page shows a list of fields already defined: 'Field 1. ID (Integer)', 'Field 2. Year (Text)', 'Field 3. Area code (Text)', 'Field 4. Area name (Text)', and 'Field 5. SOC code (Text)'. Below these, there are sections for 'Obligation' (set to 'Optional'), 'Pattern' (containing a regular expression '^\\d{2}-\\d{4}\$'), 'Label' (set to 'SOC code'), and 'Description' (with a note about using Markdown). At the bottom of the list, there are additional fields: 'Field 6. Occupational title (Text)', 'Field 7. Employment (Integer)', 'Field 8. Average wage (Numeric)', 'Field 9. 25th Percentile (Numeric)', 'Field 10. 50th Percentile (Numeric)', 'Field 11. 75th Percentile (Numeric)', and 'Field 12. Annual wage (Numeric)'. A large red '+' button labeled '+ Add field' is located at the bottom left, and a 'Save' button is at the bottom right.

## Creating and updating rows with the web form

Table Designer offers a web form for interactively creating or updating individual rows.

Add row

\* ID:  
1

\* Year:  
2022

\* Area code:  
000053

\* Area name:  
Washington

\* SOC code:  
11-1011

\* Occupational title:  
Chief Executives

\* Employment:  
2992

Average wage:  
134.42

25th Percentile:  
82.20

50th Percentile:

75th Percentile:

Annual wage:  
279590.00

## Creating or updating rows with ckanext-excelforms

Below the data preview under “Table Designer” click the “Excel template” button to download a clean template xlsx file, or or “Edit in Excel” button to download a data xlsx file.

选择文件 未选择文件

Search: :

Open the template in Excel

A	B	C	D	E	F	G	H	I	J	K	L	M	N
My Table Designer resource													
ID	Year	Area code	Area name	SOC code	Occupation al title	Average Employment wage	25th Percentile	50th Percentile	75th Percentile	Annual wage			
1	2022	000053	Washington	11-1011	Chief Executives	2992	134.42	82.2		279590			

A	B	C	D
<b>My Table Designer resource</b>			
Reference			
1	<b>1 ID (Primary Key)</b>		
2	ID	ID	
3	Format	Integer	
4			
5	<b>2 Year (Required)</b>		
6	ID	Year	
7	Format	Text	
8	Pattern	^\d{4}\$	
9			
10	<b>3 Area code (Required)</b>		
11	ID	Area code	
12	Format	Text	
13	Pattern	^\d{6}\$	
14			
15	<b>4 Area name (Required)</b>		
16	ID	Area name	
17	Format	Text	
18			
19	<b>5 SOC code (Required)</b>		
20	ID	SOC code	
21	Format	Text	
22	Pattern	^\d{2}-\d{4}\$	
23			
24	<b>6 Occupational title (Required)</b>		
25	ID	Occupational title	
26	Format	Text	
27			
28	<b>7 Employment (Required)</b>		
29	ID	Employment	
30	Format	Integer	
31			
32			
33			

The template header is set based on the resource name. Each column corresponds to one of the fields defined.

Click one of the column titles or the “reference” sheet to jump to a reference tab with information about the field including descriptions and constraints

Input data, and once errors are corrected, save the template and upload it with the file selection input next to the “Excel template” button below the preview.

Click “Submit” to upload the data or “Check for Errors” to validate the data server-side without creating or updating rows.

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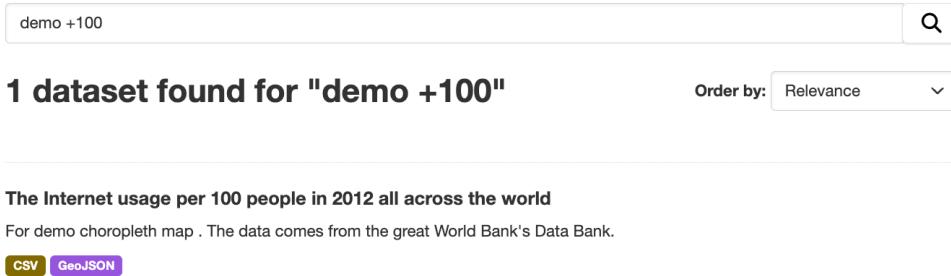
## Comment

- Its ability to use the CKAN DataStore as the primary data source and enforce validation rules. It supports updating rows without reloading all data, creates schemas with custom types and constraints. Its seamless interaction with ckanext-excelforms for bulk uploads.
- However, there are some limitations. When maintaining the Data Dictionary, fields cannot be reordered, which can make schema management less intuitive. Additionally, a bug occurs when adding maximum or minimum value constraints to integer fields, causing issues during data validation.  
*psycopg2.errors.UndefinedFunction: operator does not exist: text < bigint  
LINE 1: NEW."ID" < '1':int8  
psycopg2.errors.UndefinedFunction operator does not exist: text > bigint  
19033 LINE 1: NEW."ID" > '99999':int8*

## Demonstrate Search

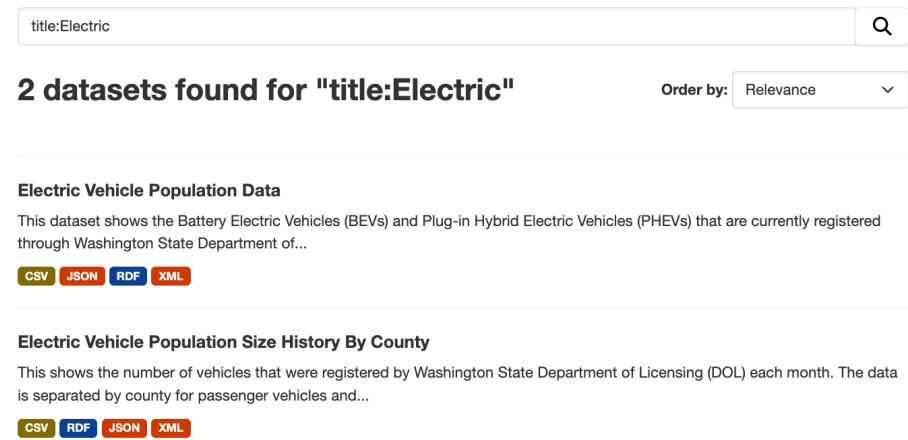
CKAN supports two search modes, both are used from the same search field. If the search terms entered into the search field contain no colon (":") CKAN will perform a simple search. If the search expression does contain at least one colon (":") CKAN will perform an advanced search.

**demo +100** will search for all the datasets containing the word **demo** and filter only those matching also **100** as it is treated as mandatory.



The screenshot shows a CKAN search interface. The search bar contains "demo +100". Below the search bar, the text "1 dataset found for \"demo +100\"" is displayed. To the right of this text is a dropdown menu labeled "Order by: Relevance". Underneath the search results, the title "The Internet usage per 100 people in 2012 all across the world" is shown, followed by a brief description: "For demo choropleth map . The data comes from the great World Bank's Data Bank." At the bottom of the results page are four download links: CSV, GeoJSON, RDF, and XML.

**title:Electric** this will look for all the datasets containing in its title the word **Electric**.



The screenshot shows a CKAN search interface. The search bar contains "title:Electric". Below the search bar, the text "2 datasets found for \"title:Electric\"" is displayed. To the right of this text is a dropdown menu labeled "Order by: Relevance". Underneath the search results, the first dataset is titled "Electric Vehicle Population Data" with a brief description: "This dataset shows the Battery Electric Vehicles (BEVs) and Plug-in Hybrid Electric Vehicles (PHEVs) that are currently registered through Washington State Department of...". At the bottom of the results page are four download links: CSV, JSON, RDF, and XML. The second dataset is titled "Electric Vehicle Population Size History By County" with a brief description: "This shows the number of vehicles that were registered by Washington State Department of Licensing (DOL) each month. The data is separated by county for passenger vehicles and...". At the bottom of the results page are four download links: CSV, RDF, JSON, and XML.

## Comment

- The search functionality in CKAN is powerful and versatile, offering both simple and advanced search modes. Simple search, powered by Solr's DisMax Query Parser, is user-friendly and handles most queries without error, even allowing phrase searches and modifiers like "+" and "-". Advanced search offers flexibility with support for wildcards, proximity matching, and field-specific searches, making it a valuable tool for users needing precision.
- There are areas for improvement. First, it would be helpful to provide users with syntax hints, particularly when using advanced search, along with a list of valid fields to enhance usability. Second, when the multi-language plugin is enabled, the simple search may fail to return results, my detailed analysis can be found in the "ckan\_install" document.

## Reference

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3. <https://docs.ckan.org/en/2.11/theming/css.html>
4. [https://all-free-download.com/free-vector/download/business\\_team\\_avatar\\_collection\\_design\\_in\\_colored\\_flat\\_6825397.html](https://all-free-download.com/free-vector/download/business_team_avatar_collection_design_in_colored_flat_6825397.html)
5. <https://data.gov/>