First things first - what are the challenges?
We have a lot of apps (approx 100+...)
A lot of apps means a lot of interfaces
and I don't just mean graphical user interfaces

```python
import requests
from requests.auth import HTTPBasicAuth

apikey = "your_api_key"
request_url = "http://citysdk.commerce.gov"

request_obj = {
    'zip': '21401',
    'state': 'MD',
    'level': 'state',
    'sublevel': False,
    'api': 'acs5',
    'year': 2010,
    'variables': ['income', 'population']
}
```
and a lot of these apps have their own update cycle
which means they can get out of sync
which makes maintainence and quality assurance hard
We also tend to arrange our data based on Census structure
which makes it hard for folks to know what we have and where to find it
So what are we doing about it?
We're starting by looking at our data from our users' perspective
That's cool. What does that mean?
First - the data needs to be discoverable
Second - it needs to be understandable
And third - it needs to be extensible
How are we approaching these challenges?
we're beginning with a flexible, centralized infrastructure

url: http://data.census.gov/api/endpoints/args
{
    "services": [
        "endpoints",
        "facets",
        "locations",
        "search",
        "states",
        "tablemetadata",
        "tables",
        "typeahead",
        "validgeos"
    ],
    message: "***Welcome to the CEDSCI API***"
then building a front-end to prove it out
so what's the idea here?
if we can do it, they can do it better
What's the rough idea?
Veteran Status in Washington DC

Advanced Search

Showing 36 results for: Veterans X District of Columbia

:: Filters

Veterans in the District of Columbia

District of Columbia Veteran Population: 29,557
Source: 2014 American Community Survey 5-Year Summary File

Total Population of the District of Columbia: 672,228
Source: Vintage 2015 Population Estimates

Male Veteran Population in District of Columbia: 26,450
Source: 2014 American Community Survey 5-Year Summary File

SEX BY AGE BY VETERAN STATUS FOR THE CIVILIAN POPULATION 18 YEARS AND OVER

Table ID: 821001
2014: ACS 5-Year Summary File

VETERAN STATUS BY EDUCATIONAL ATTAINMENT FOR THE CIVILIAN POPULATION 25 YEARS AND OVER

Table ID: 821003
2014: ACS 5-Year Summary File

MEDIAN INCOME IN THE PAST 12 MONTHS (IN 2014 INFLATION-ADJUSTED DOLLARS) BY VETERAN STATUS BY SEX FOR THE CIVILIAN POPULATION 18 YEARS AND OVER WITH INCOME

Table ID: 821004
2014: ACS 5-Year Summary File

Documents related to Veterans in the United States
where we are today
prototypes

• data services interface
• single search bar
• table result set
• table interface
• basic mapping capabilities
How does this all fit together?
where else are we going?
A few interesting differences between rural and urban populations.

Census API
Learn the basics of the Census API for better response to data discovery methods.

Documentation
Get all the documentation necessary to understand how to use the API.

Guides
Step-by-step guides to help you better understand the API.

Sandbox
Get started with a sandbox to test your data and understand the API better.

Tools and Applications
Get started on your business, analysis, or cartography with our ready-made data apps.

Census Business Builder
Get a jumpstart on your business, analysis, or cartography with our ready-made data apps.

Footer