

Haven OnDemand

This is an interactive document

For the best experience, please view in full screen mode and explore the links!

Haven OnDemand: “One platform, Limitless innovation”

Powers a New Generation of Applications through Machine-Learning APIs & Services

**Haven OnDemand is a powerful machine learning platform for developers to easily build data-rich apps.
The platform was born to help developers and companies solve hard problems and succeed in the new app-driven Idea Economy.**

Our customers told us they wanted to build cloud-first applications that could solve their complex business problems.

They wanted to build advanced data-rich apps with enterprise-scale reliability. Quickly.

So, we took the best of what we’ve learned from years of working with all sorts of machine and human data to create Haven OnDemand, a self-service platform of Machine Learning APIs that makes it easy to develop apps that make the most of #allthedata.

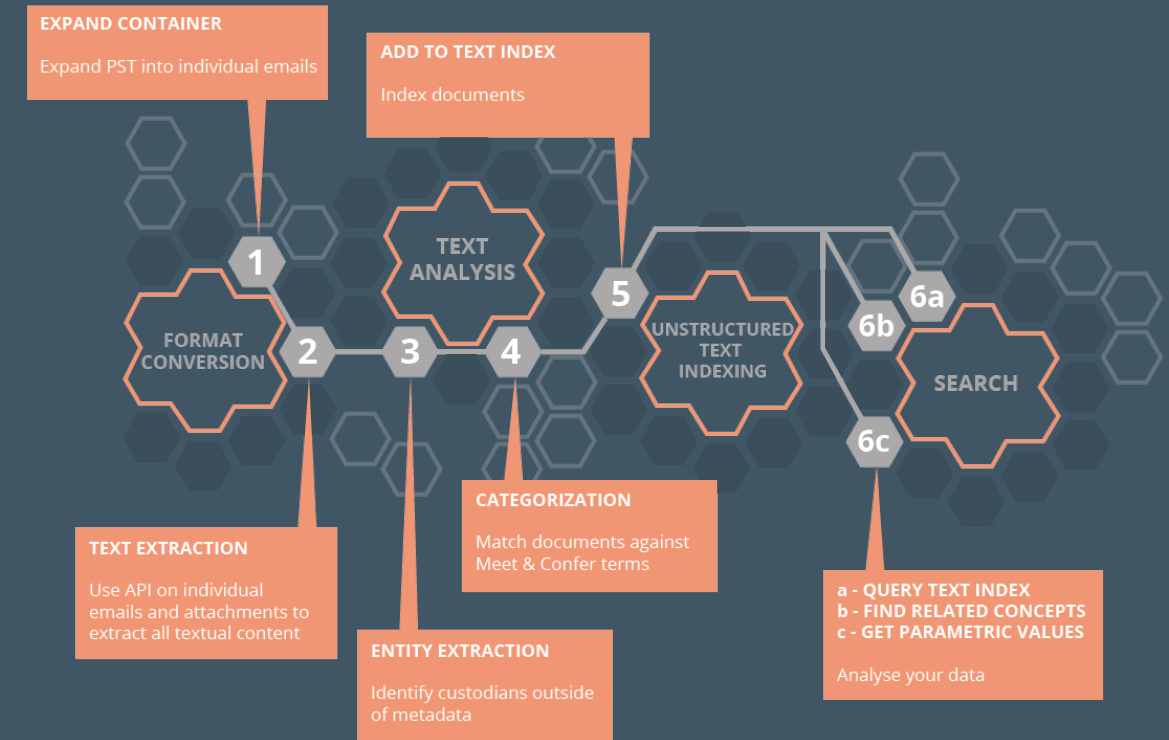
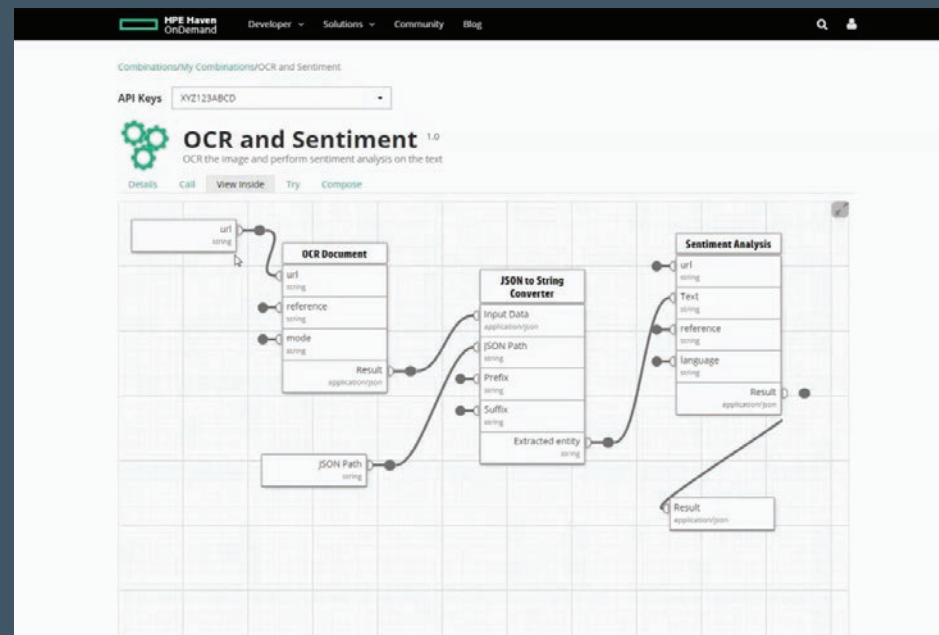
APIs

Browse all of our APIs or select a category to filter the view. Click on an API to see detailed information for the API including a descriptive overview and the request and response formats.

View: All by category

API	Description	Try
Audio-Video Analytics		
Speech Recognition	Transcribes speech to text from a video or audio file.	Try
Connectors		
Cancel Connector	Cancels a connector schedule.	Log in to try
Schedule	Schedules connector status information.	Log in to try
Connector History	Returns connector status information.	Log in to try
Connector Status	Returns connector status information.	Log in to try
Create Connector	Creates a connector.	Log in to try
Delete Connector	Deletes a connector.	Log in to try
Retrieve Config	Returns a connector configuration.	Log in to try
Start Connector	Starts a connector.	Log in to try
Stop Connector	Stops a running connector.	Log in to try
Update Connector	Updates a connector.	Log in to try
Format Conversion		
Expand Container	Returns the contents of a container file.	Try
OCR Document	Converts text from an image.	Try
Store Objects	Stores a file.	Try
Text Extraction	Extracts text from a file.	Try
View Document	Converts a document to HTML format for viewing in a web browser.	Try
Graph Analysis		
Get Common Neighbors	Returns the common neighbors of the nodes that you specify.	Try
Get Neighbors	Returns the neighbors of one or more specified nodes.	Try
Get Nodes	Returns the nodes in your graph.	Try
Get Shortest Path	Returns the shortest path in the graph between two specified nodes.	Try
Get Subgraph	Returns a subgraph based on a set of nodes that you specify.	Try
Suggest Links	Suggests nodes that a specified node is close to in the graph, but that it does not currently connect to.	Try
Summarize Graph	Returns a summary of all data in the graph.	Try
Image Analysis		
Barcode Recognition	Detects and decodes 1D and 2D barcodes in an image that you provide.	Try
Face Detection	Detects faces in an image.	Try
Image Recognition	Identifies faces and objects in an image that you provide.	Try
OCR Document	Transcribes text from an image.	Try
Policy		
Create Classification	Creates objects that support document classification.	Log in to try
Create Policy	Creates policies or policy types.	Log in to try
Delete Classification	Deletes objects that support document classification.	Log in to try
Delete Policy	Deletes policies or policy types.	Log in to try
Retrieve Classification	Returns objects that support document classification.	Log in to try
Retrieve Policy	Returns policies or policy types.	Log in to try
Update Classification	Updates objects that support document classification.	Log in to try
Update Policy	Updates policies or policy types.	Log in to try
Prediction		
Evadict	Returns the prediction model for the provided text.	Try
Recommend	Returns the prediction model for the provided text, and provides related recommendations.	Try
Train Prediction	Trains a prediction model.	Try
Query Profile and Manipulation		
Create Query Profile	Creates a query profile.	Log in to try
Delete Query Profile	Deletes a query profile.	Log in to try
Retrieve Query Profile	Returns a query profile.	Log in to try
Update Query Profile	Updates a query profile.	Log in to try
Search		
Find Related Concepts	Returns the best terms and phrases in documents that match the specified query.	Try
Find Similar	Returns documents that are conceptually similar to your text or a document.	Try
Get Contents	Displays the contents of one or more specified documents or document sections.	Try
Get Parametric Values	Returns parametric values that are associated with one or more parameters that you specify.	Try
Query Text Index	Searches for items that match your specified rules of language text. Returns expressions or paths.	Try
Reverse Index Fields	Returns the registered fields for a given field type or for all field types.	Try
Text Analysis		
Auto Complete	Completes a word fragment.	Log in to try
Classify Document	Classifies a document into prebuilt collections.	Log in to try
Concept Extraction	Extracts the key concepts from the text you submit.	Try
Document Categorization	Searches for categories that match a specified document.	Log in to try
Entity Extraction	Extracts named entities, phrases, or blocks of information from your input text.	Try
Expand Terms	Returns a list of matching possible terms for a wildcard term in a query expression.	Try
Highlight Text	Highlights the specified terms in the text you submit.	Try
Language Identification	Identifies the language of a piece of text.	Try
Sentiment Analysis	Assigns sentiment for positive or negative sentiment.	Try
Text Visualization	Returns information about the terms in a specified text.	Try
Unstructured Text Indexing		
Add to Text Index	Indexes a document.	Log in to try
Create Text Index	Creates a text index.	Log in to try
Delete Text Index	Deletes a text index.	Log in to try
Delete from Text Index	Deletes a document from the index.	Log in to try
Index Status	Returns index status information.	Log in to try
List Resources	Lists your data file resources.	Try
Restore Text Index	Restores a text index at a previous state.	Log in to try

Today we have **60+ composable Machine Learning APIs** that power a comprehensive set of use-cases: Haven OnDemand can crawl, index and analyze data from file systems and the web. It can analyze and extract insights from text, audio, video, and image files, or be used to build predictive models and recommendation engines. A developer can also create powerful data transformation and enrichment workflows by chaining/combining APIs.



Our APIs were chosen to complement each other in endless combinations. We believe the sum is greater than the parts.

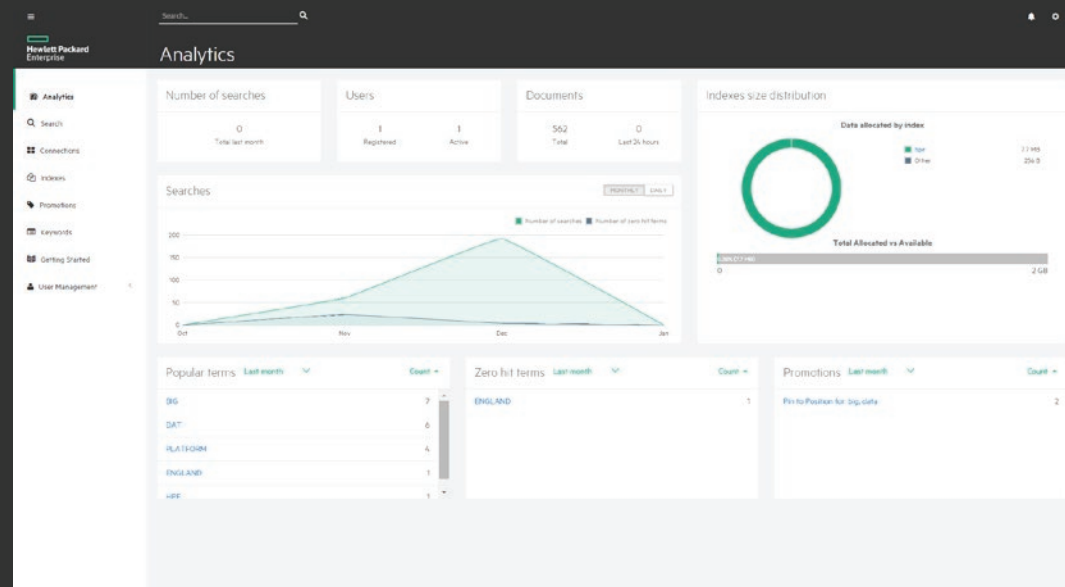
We created **Combinations** to allow developers to drag, drop and connect APIs and data to solve use-cases in their application. Combination flows can be reused enabling rapid modification to support new use cases

By using Haven OnDemand, the developer saves a lot of time, and is able to include powerful natural language processing, cognitive, machine learning, and predictive analytics functionality in their application with a minimal amount of coding. The developer makes the finished application available for end-users to use.

Proving the platform

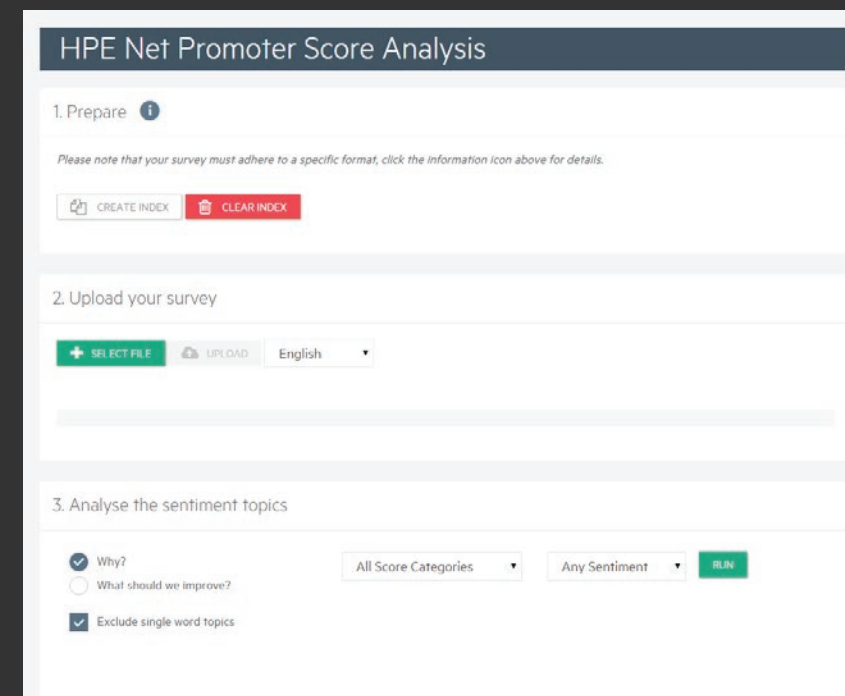
While some businesses create and customize their own applications, others prefer out-of-the-box pre-made solutions. That led us to create several purpose-based solutions, which are built on top of our API platform and combine the best of both worlds.

Haven Search OnDemand



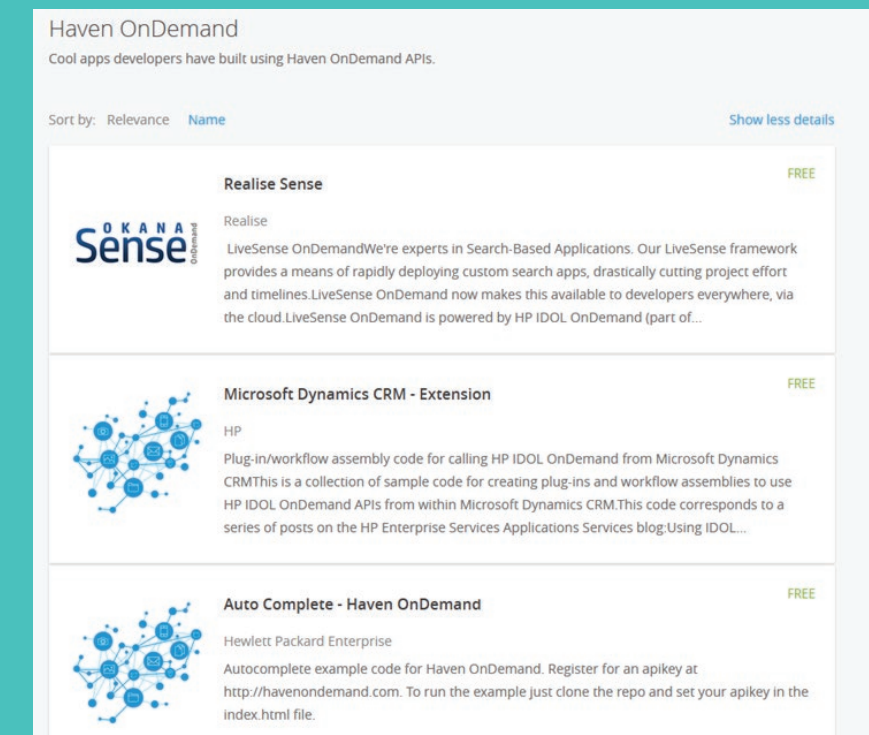
Haven Search OnDemand is an end-to-end search solution that allows advanced curated search for the enterprise, so that a search environment can easily be established in a matter of hours and offered for end-users. The solution includes simple and easy-to-use management interface that allows the business admin to setup and manage a search system, and an intuitive open-sourced search application for end users that can be easily customized with the Haven OnDemand APIs.

Fully-automated analysis, extraction and conceptual grouping of NPS survey responses



Another solution built on top of Haven OnDemand APIs is the Net Promoter Score Survey, a fully-automated analysis, extraction and conceptual grouping of Net Promoter Score survey responses. Being customer-centric or building a sales, support and organization culture that is tuned to your customers satisfaction is key ingredient for business success and survival. No matter what solution you're using to capture key customer insights and their Net Promoter Score, you can easily extend your solutions with further intelligence and actionable insights using Natural Language Processing, Classification, and Conceptual Search APIs.

Haven OnDemand App Marketplace



The App Marketplace is where Haven OnDemand developers can publish their apps to gain exposure to a broader audience and customer base.

We envision a broad collection of data-rich applications built by developers, customers, and partners in the HOD app ecosystem.

PLATFORM PRICING: APIs and Services

We use consumption based billing for the Haven OnDemand Machine Learning APIs

API Units

- The measure of doing a given action e.g.a query; sentiment analysis or text extraction.
- Typically 1 API call = 1 API unit
- Some APIs have a multiplier - e.g. Speech Recognition: 1 API unit=1 second of speech.
- Pricing is based on volume of API units



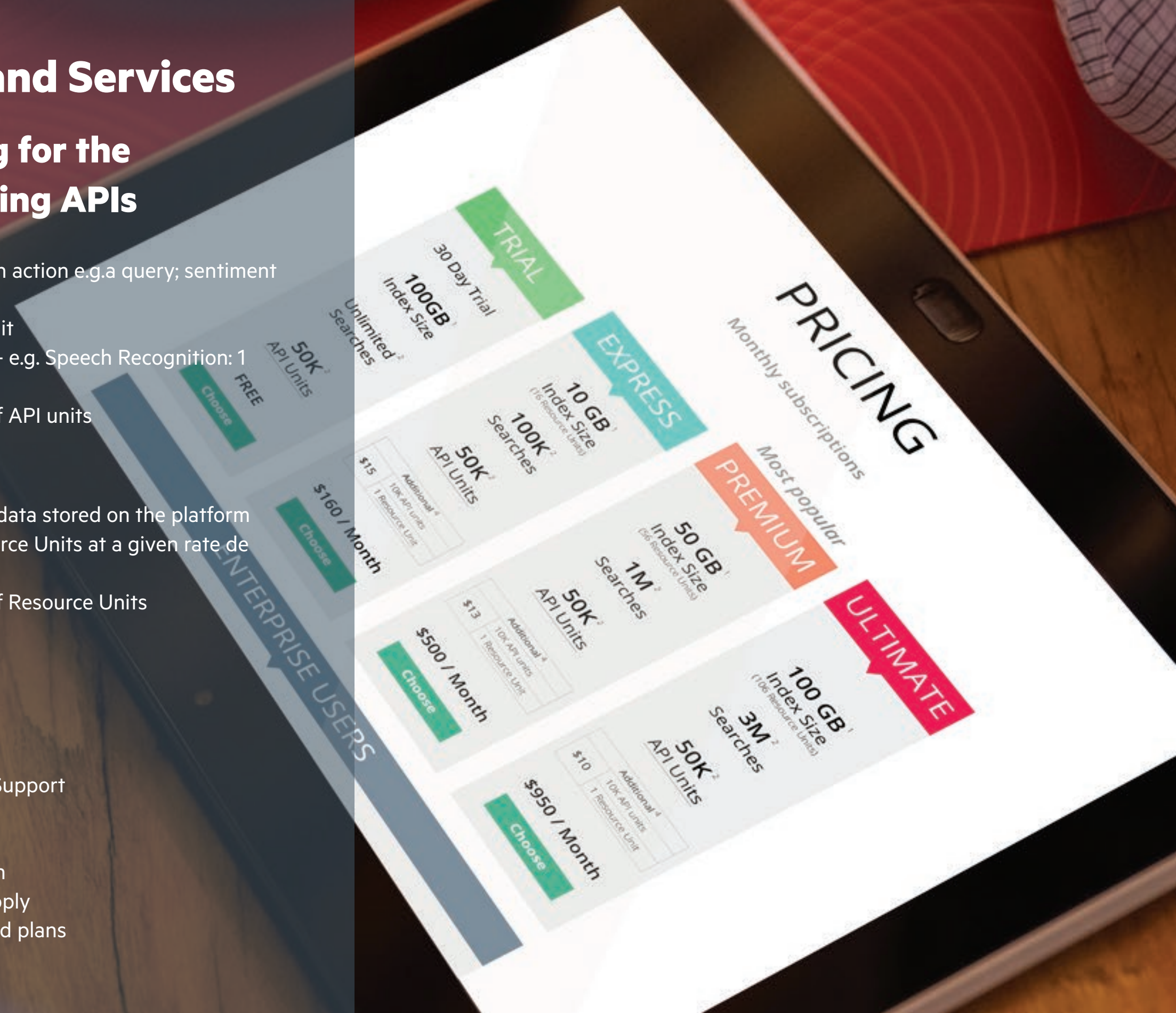
Resource Units

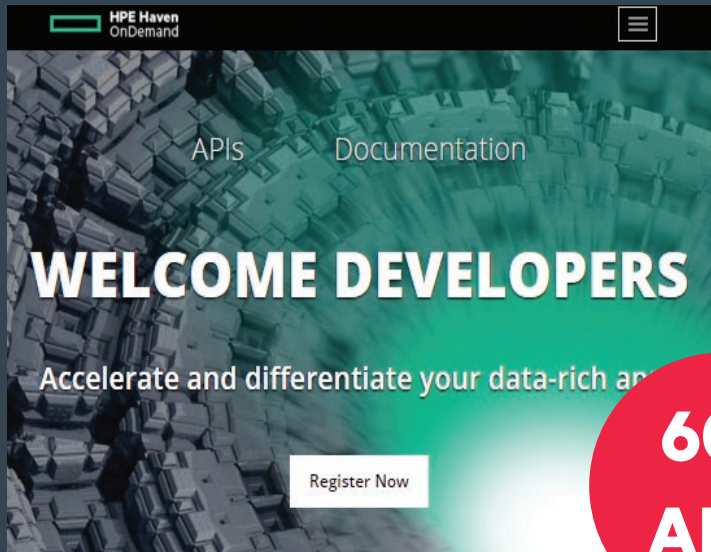
- The measure of information/data stored on the platform
- Text Indexes consume Resource Units at a given rate dependent on configuration.
- Pricing is based on volume of Resource Units



Enterprise Support

- 24 x 7 Telephone & Online Support
- Response SLA
- Named Support Engineer
- 20% of Monthly Consumption
- Annual Minimum Charges Apply
- Only available with committed plans





60+
APIs

Machine Learning APIs

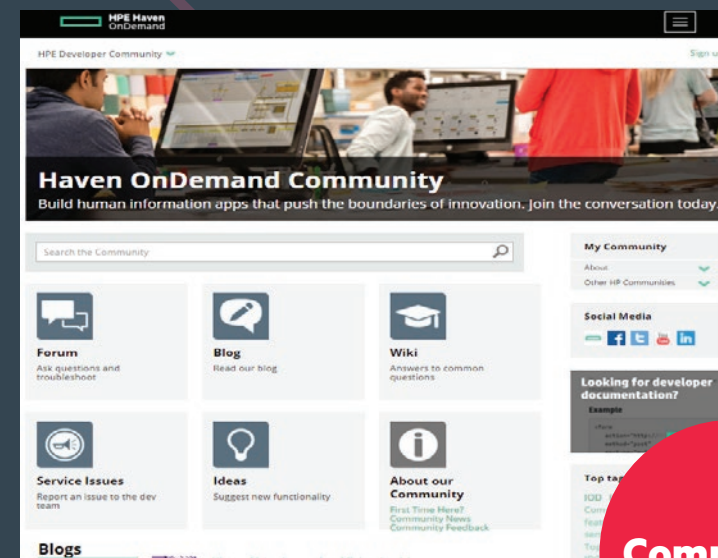
APIs can be combined to build powerful services and solutions e.g. Haven Search OnDemand

12,000+ Haven OnDemand developers worldwide

Knowledge and idea sharing through forums, blog, and social

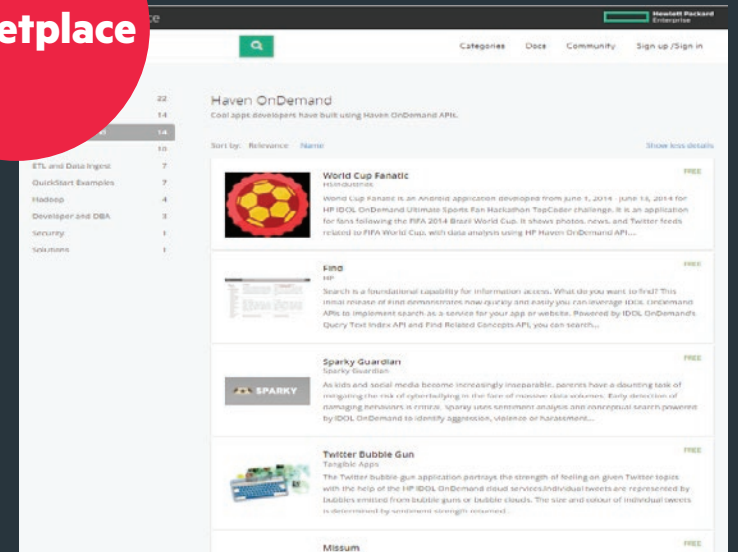
Resources via docs, tutorials, code libraries and quick-starts

Experiential events & hackathons to connect and engage



Community

Marketplace



Growing ecosystem of HPE and 3rd party applications

Downloads, plugins, extensions, apps, demos, tutorials

Marketplace promotes developer applications to HPE partners and customers

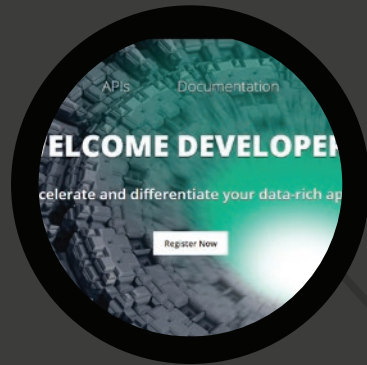
Developer Program

HPE Haven OnDemand Developer Program

Collaborative development to accelerate innovation

Multi-channel developer outreach to drive awareness and engagement

Strategic partnerships and programs incl. TopCoder, Enterprise Hackathons



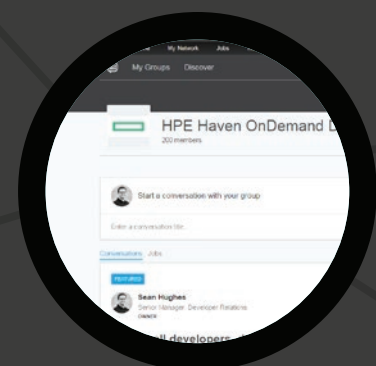
HavenOnDemand.com



Showcase



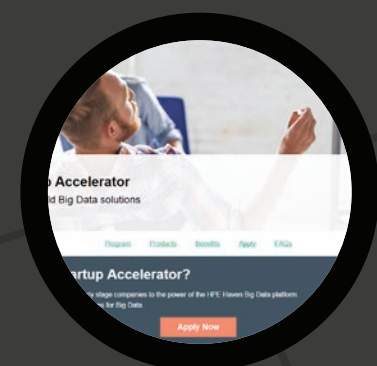
Marketplace



LinkedIn Developers group



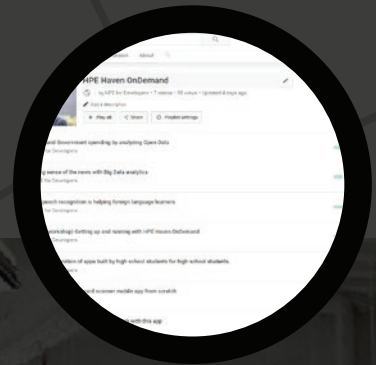
Community blogs and forum



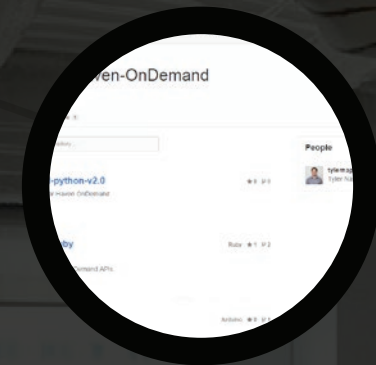
Startup accelerator



Twitter



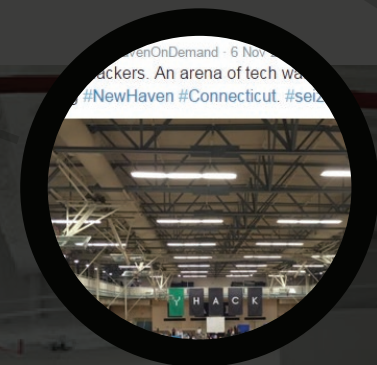
Youtube



Github



Newsroom



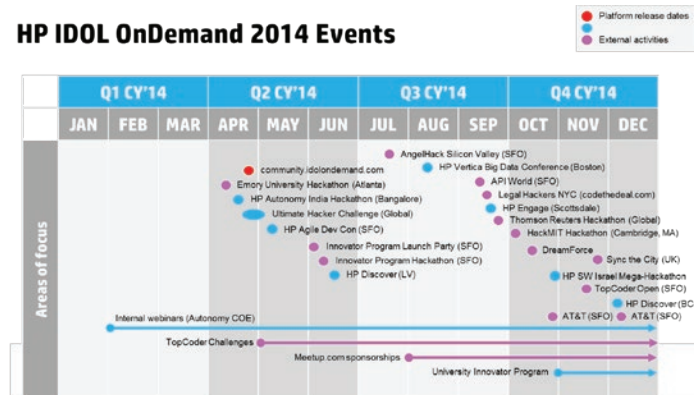
Events and Hackathons



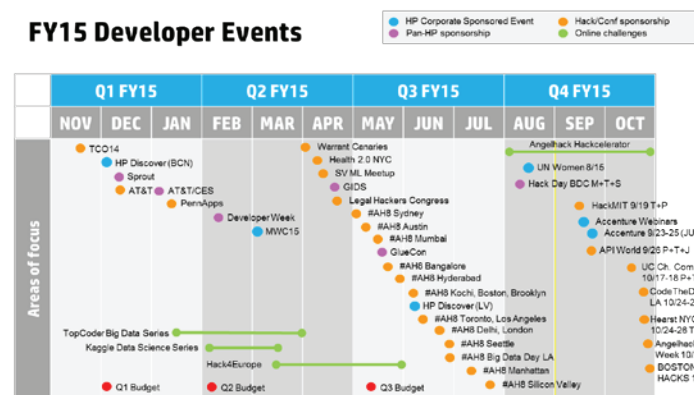
Online Challenges

Developer Engagement – Events

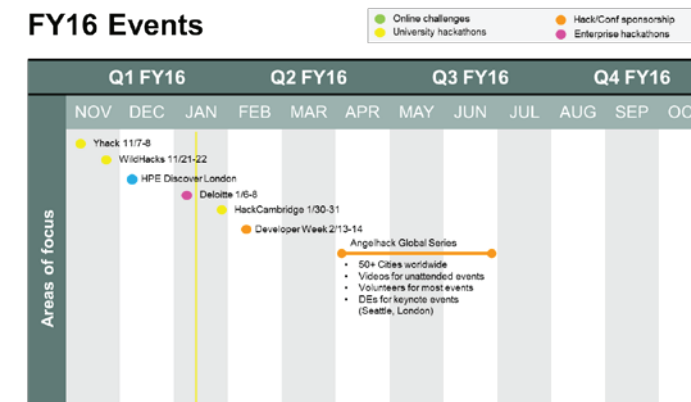
HP IDOL OnDemand 2014 Events



FY15 Developer Events



FY16 Events



FY14

- 22 In-person events
- ~120 Online challenges
- >5,000 Developers engaged

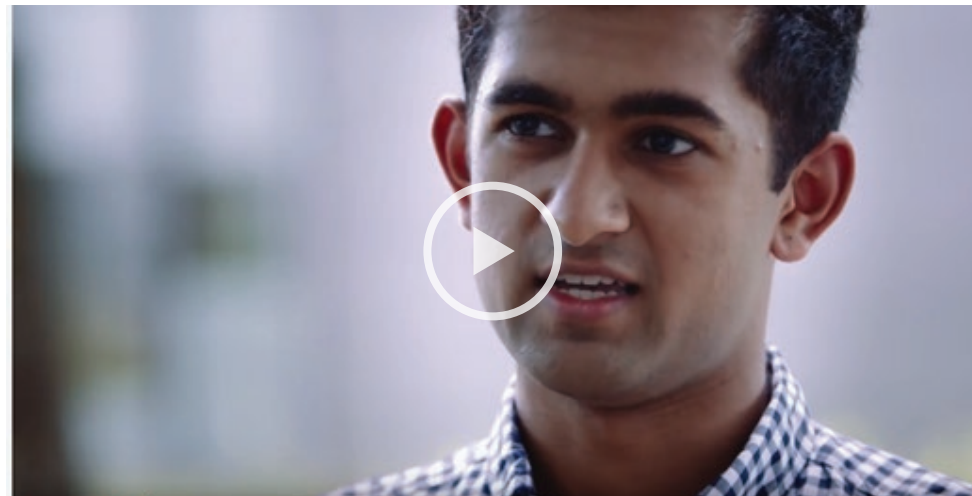
FY15

- 40 In-person events
- ~10 Online challenges
- >10,000 Developers engaged

FY16

- Grow HavenOnDemand community to exceed 15,000 registered developers world wide.
- 50+ In-person events planned to date
- Online challenges
- HPE Living Progress
- + More being scoped

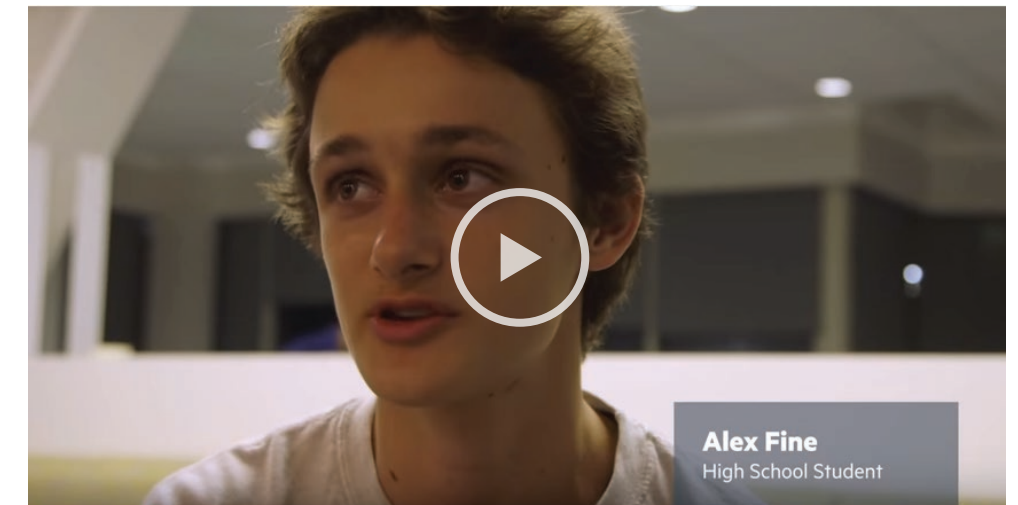
DEVELOPER STORIES



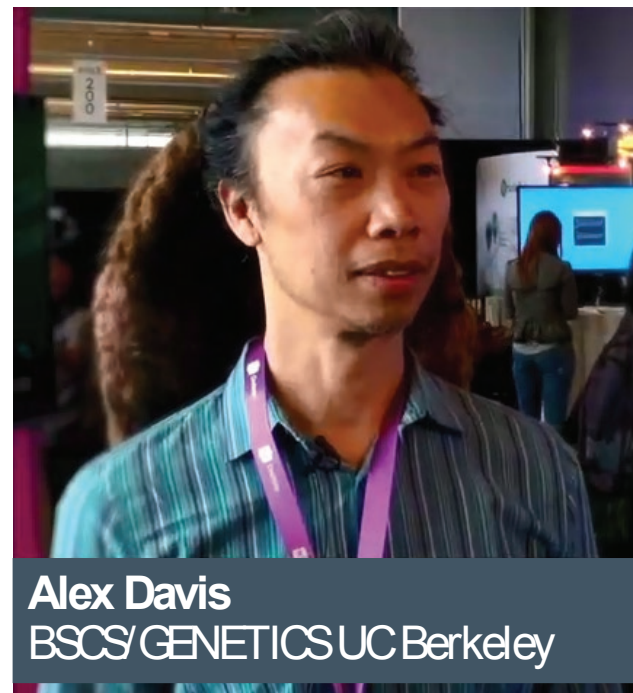
Understand Government spending by analyzing Open Data



How speech recognition is helping foreign language learners



The next generation of apps built by high-school students for high-school students.



Developer:

Alex Davis

Languages:

C, Java, Shells, Perl, TCL/TK, PHP, JavaScript, Ruby, golang, node.js

Programming/IT experience:

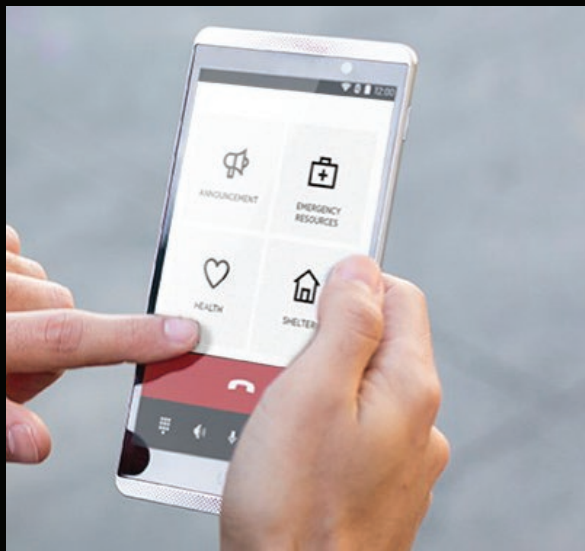
25+ Years incl. work at NASA, Charles Schwab, and several startups

Experience with IBM Watson?

“The barrier to development is higher. You can’t just blast your code onto their platform. You would have to fit within their framework and learn how to use a specific set of tools.”

What makes HP Haven OnDemand more developer focused?

“You can actually work in your own stack with your product hosted “anywhere” and just call an API to use the platform.”

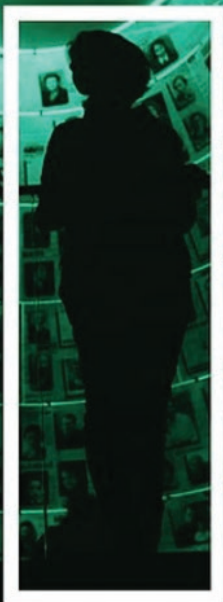


The Living Progress Challenge

The Living Progress Challenge Goal is to improve the lives of 1 million people by 2020. The Living Progress Challenge will combine information technology, and Hewlett Packard Enterprise employee expertise, with the global community's most innovative ideas to accelerate opportunity for people.

History Meets Innovation

Big Data Hackathon with Yad Vashem



Yad Vashem

During October 2015, the Haven OnDemand team joined forces with HPE labs to conduct a two weeks hackathon with one of the world's most important historical institutions called Yad Vashem. The team at Yad Vashem manages enormous amounts of data which is still growing. They also own a variety of data types: photos, documents, video and audio files. Using Haven OnDemand APIs, they can now easily index all of this data, regardless to its type, to get valuable insights.

KDNuggests article link: <http://www.kdnuggets.com/2016/01/history-meets-innovation-big-data-hackathon-yadvashem.html>)



HACKATHONS

80+ around the world, 100+ online challenges
100% YoY registered dev growth since 2014

2015 Cities

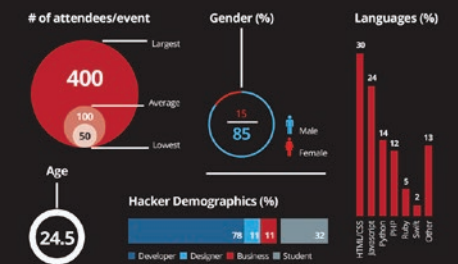
- Abu Dhabi
- Athens
- Austin
- Bangalore
- Bangkok
- Barcelona
- Bolzano
- Bogota
- Boston
- Brooklyn
- Buenos Aires
- Chennai
- Cincinnati
- Davao
- Delhi (Gurgaon)
- Dubai
- Hong Kong
- Hyderabad
- Istanbul
- Iraq
- Kochi
- Krakov
- Kuala Lumpur
- London
- Los Angeles
- Manhattan
- Manila
- Mexico City
- Montreal
- Moscow
- Mumbai
- San Francisco
- San Pedro Sula
- Seattle
- Shanghai
- Shenzhen
- Silicon Valley
- Singapore
- Sydney
- Tokyo
- Toronto
- Vietnam (HCM)
- Vizag
- Zurich

2015 AngelHack Global Hackathon Series

AngelHack is the world's largest and most diverse global hacker community, helping to drive open innovation of tech products, platforms and brands with extraordinary smarts, scale and speed.



Overall



10,098 Total Registrants



2016 Cities

- Abu Dhabi
- Athens
- Austin
- Bangalore
- Bangkok
- Batangas
- Barcelona
- Berlin
- Bogota
- Boston
- Brooklyn
- Buenos Aires
- Cairo
- Cebu
- Davao
- Doha (Qatar)
- Dubai
- Dublin
- Havana
- Hanoi
- Ho Chi Minh
- Hong Kong
- Hyderabad
- Iraq
- Iran
- Istanbul
- Jakarta
- Jordan
- Kochi
- Krakov
- Kuala Lumpur
- Kuwait
- Lima
- London
- Los Angeles
- Manhattan
- Manila
- Mexico City
- Miami
- Nairobi
- Los Angeles
- Quito
- Ramallah
- Rio De Janeiro
- Rwanda
- Salt Lake City
- Santiago
- San Pedro Sula
- San Francisco
- Sao Paulo
- Shanghai
- Singapore
- Silicon Valley
- Stockholm
- Seattle
- Tel Aviv
- Tokyo
- Washington DC
- Zurich

“ AngelHack's International hackathon program opened my eyes to the world of hungry visionaries and the vast untapped developing startup market. I would definitely do it again
Alexia Tsotsis - Co-editor TechCrunch ”

Angelhack Global Hackathon Series 2016

HPE Haven OnDemand is a global sponsor for the upcoming Angelhack Global Hackathon Series taking place at 50+ cities in April through June of 2016. The winners of each city event will be invited to Angelhack's HACKcelerator program, a 12-week pre-accelerator mentorship program for startups, that ends with the qualifying teams being able to pitch their startups to investors.



“The idea behind the project is to take all of the data that we ingest and host within Thomson Reuters... stream all of that into a central repository, cleanse the data, centralize it, extract meaningful information, and subsequently expose it to the rest of the businesses for use in their specific industry applications”

Chris Blatchford Director of Platform Technology in the IT organization at Thomson Reuters



Two teams, one from the North (Newcastle) and one from the South (London) of England squared up, head to head against each other. The goal for this hackathon was for teams to build an application proof of concept that would drive innovation and transform Accenture’s business. This could be a new product/service offering, an enhancement to an existing product/service, or even a new toolset or widget for internal use. Apps created:

One of the teams designed a tool for automatically sending news letters to Accenture employees who are based in client sites. The news letters would be tailored to articles from the media that would mention both Accenture and the company they are based in. This would enable Accenture employees to establish a better communication channel with the clients.

The other team designed an application which allows users to query media articles for particular concepts such as company names, people etc and it shows whether the sentiment in the media is positive or negative. It takes into account a variety of sources from news papers to tweets.

ENTERPRISE HACKATHONS



The Content Analytics/Big Data space is still evolving, and to kickstart meaningful discussions with our clients, the firm would like to develop a number of demonstration applications to address the challenges of dealing with and leveraging both structured and unstructured content for clients across various industry sectors.



Haven OnDemand Global Launch World Tour

Kicking off March 10 in Silicon Valley

hpeanalyticstour.com

Sign-in to havenondemand.com to get your free account and experiment with the APIs

HavenOnDemand.com

Get your early access account for Haven Search OnDemand

Haven Search OnDemand