Connecting Enterprise APIs to HTML5 Cross-Platform Application Development

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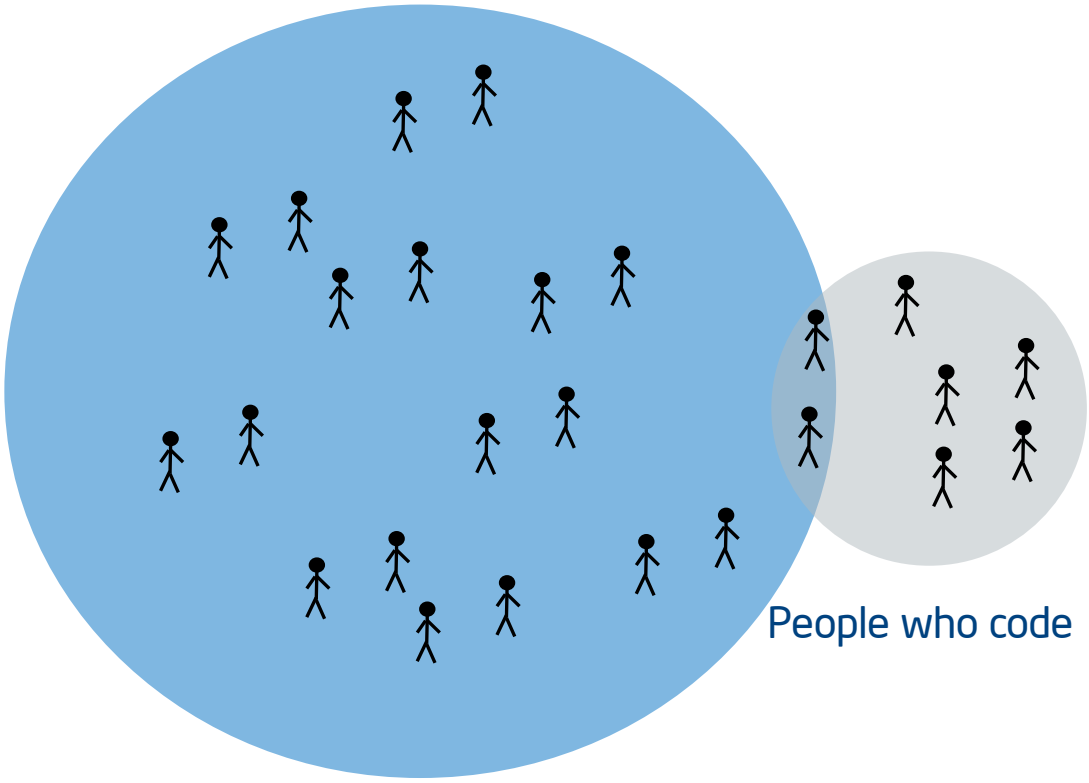
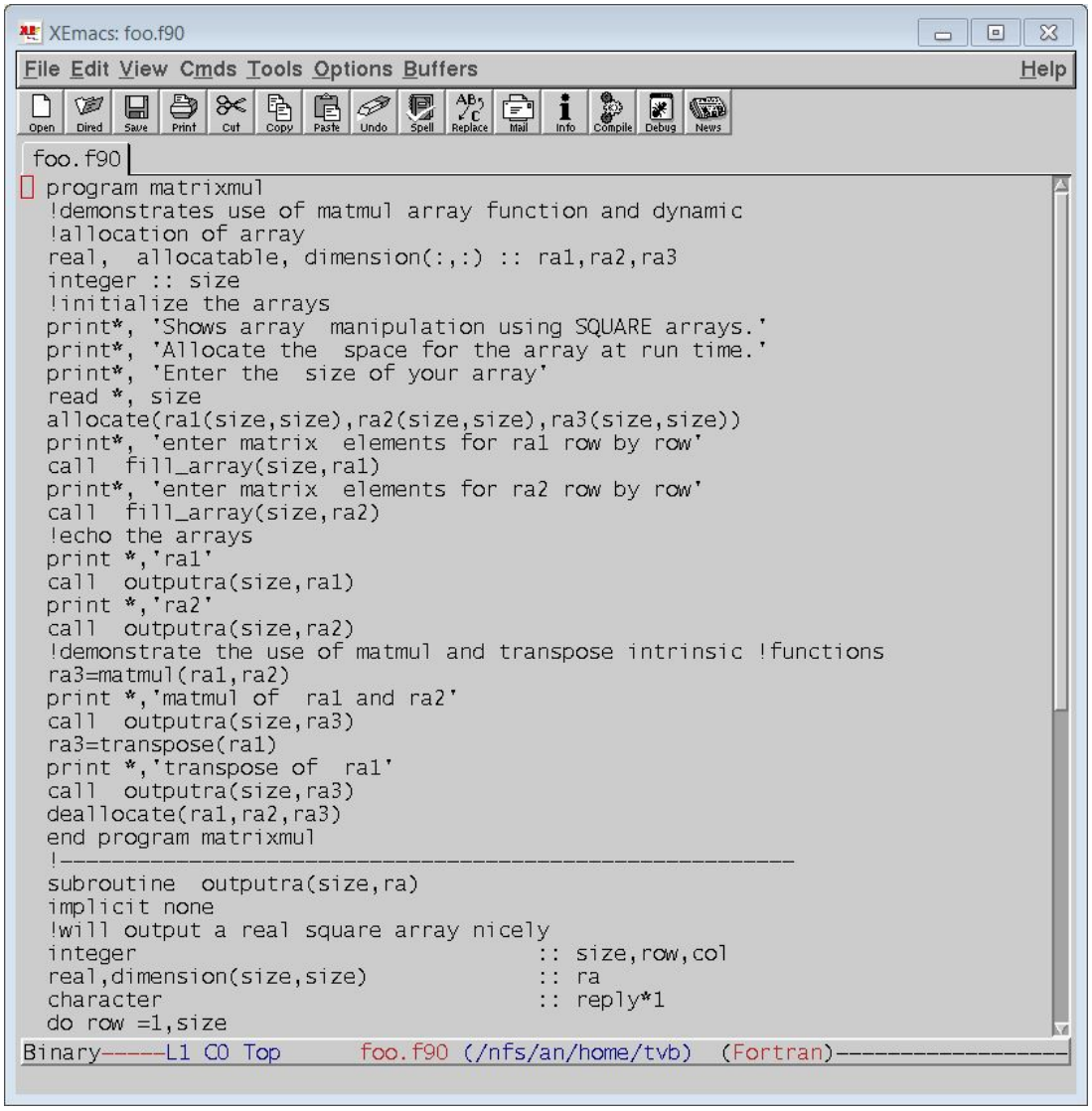
In the not too distant past...

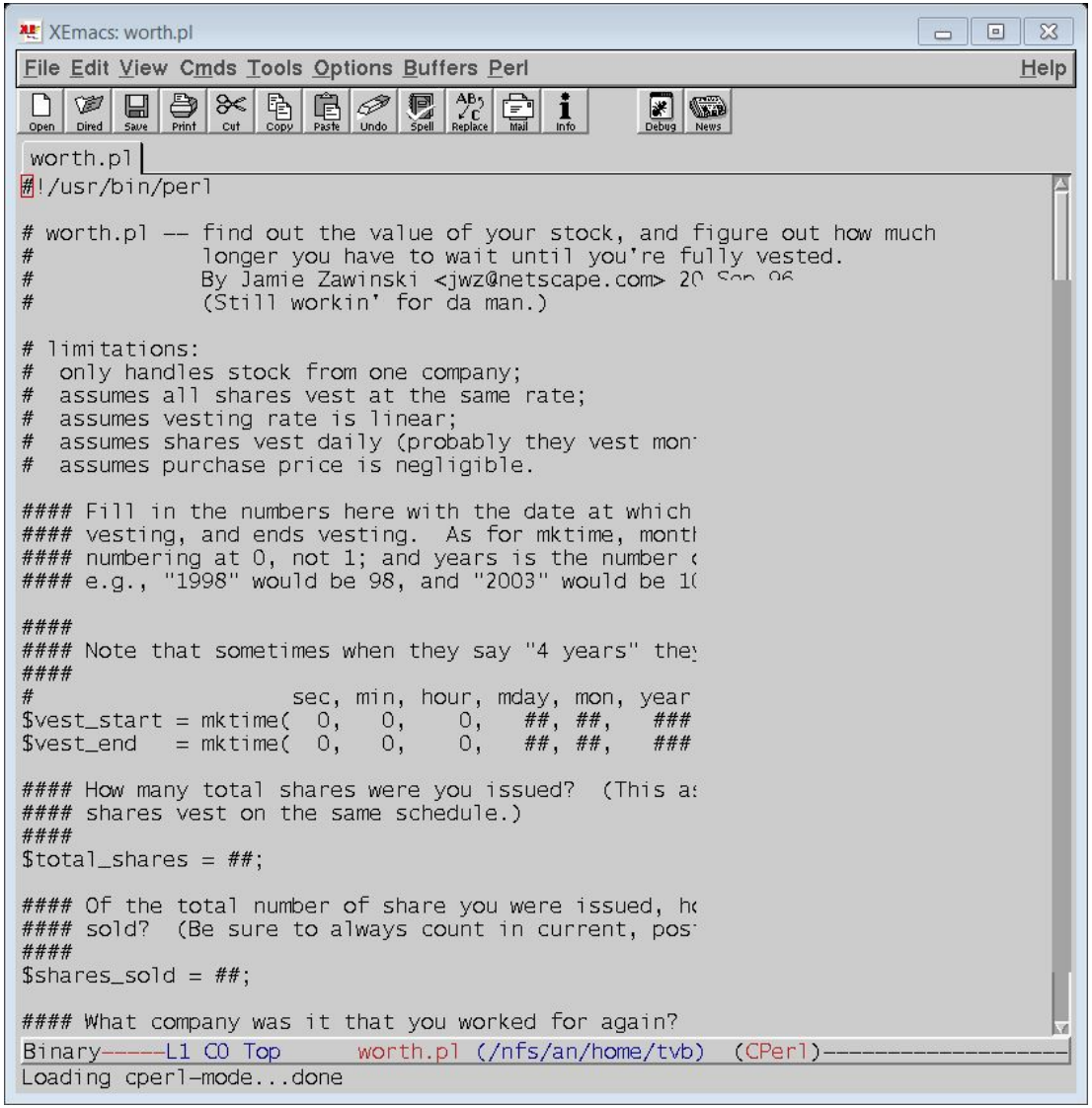


Internal Tools Reflected Tribal Knowledge



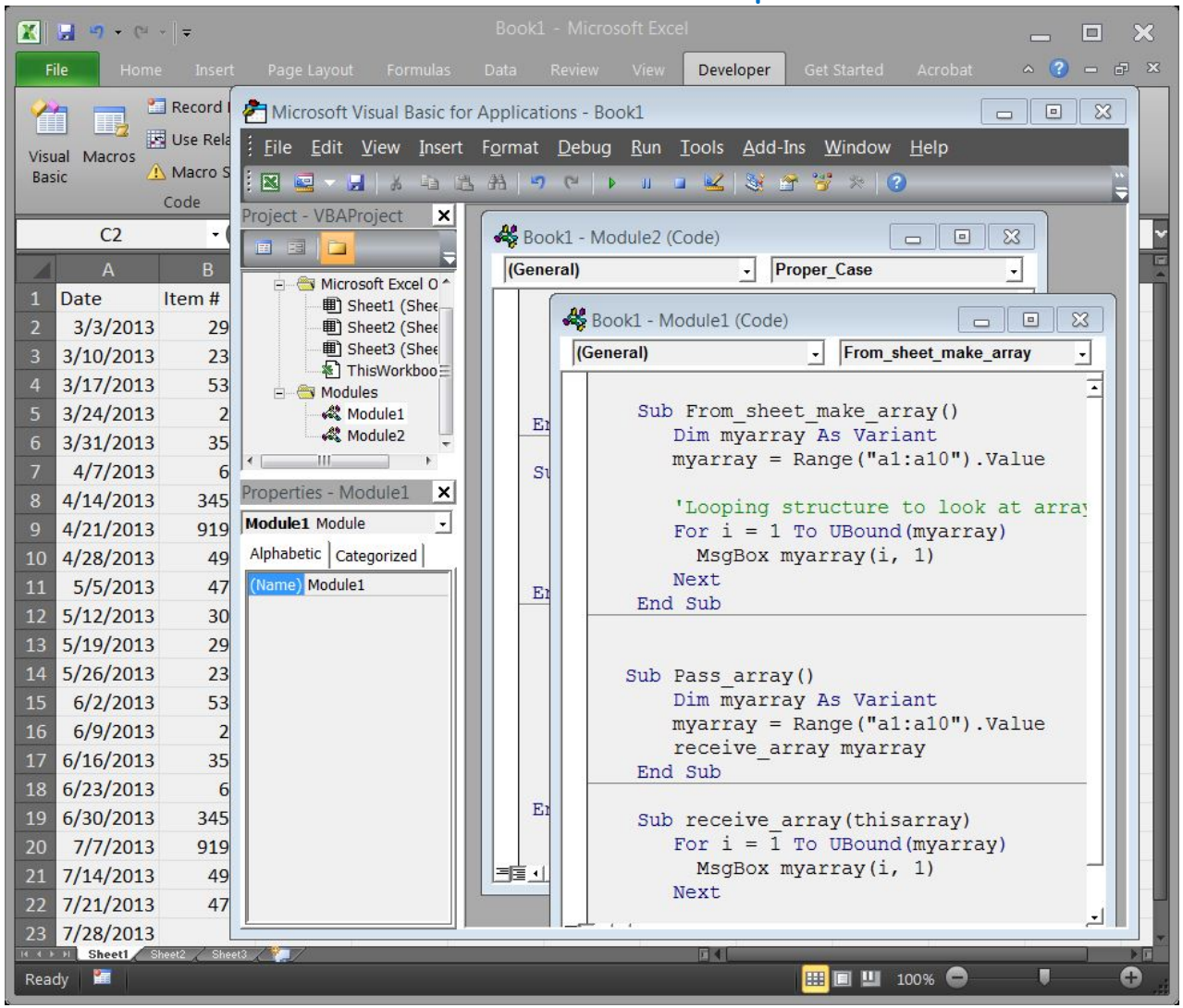
Source: fortrantutorial.com

Shared Knowledge Spread Across Tribes



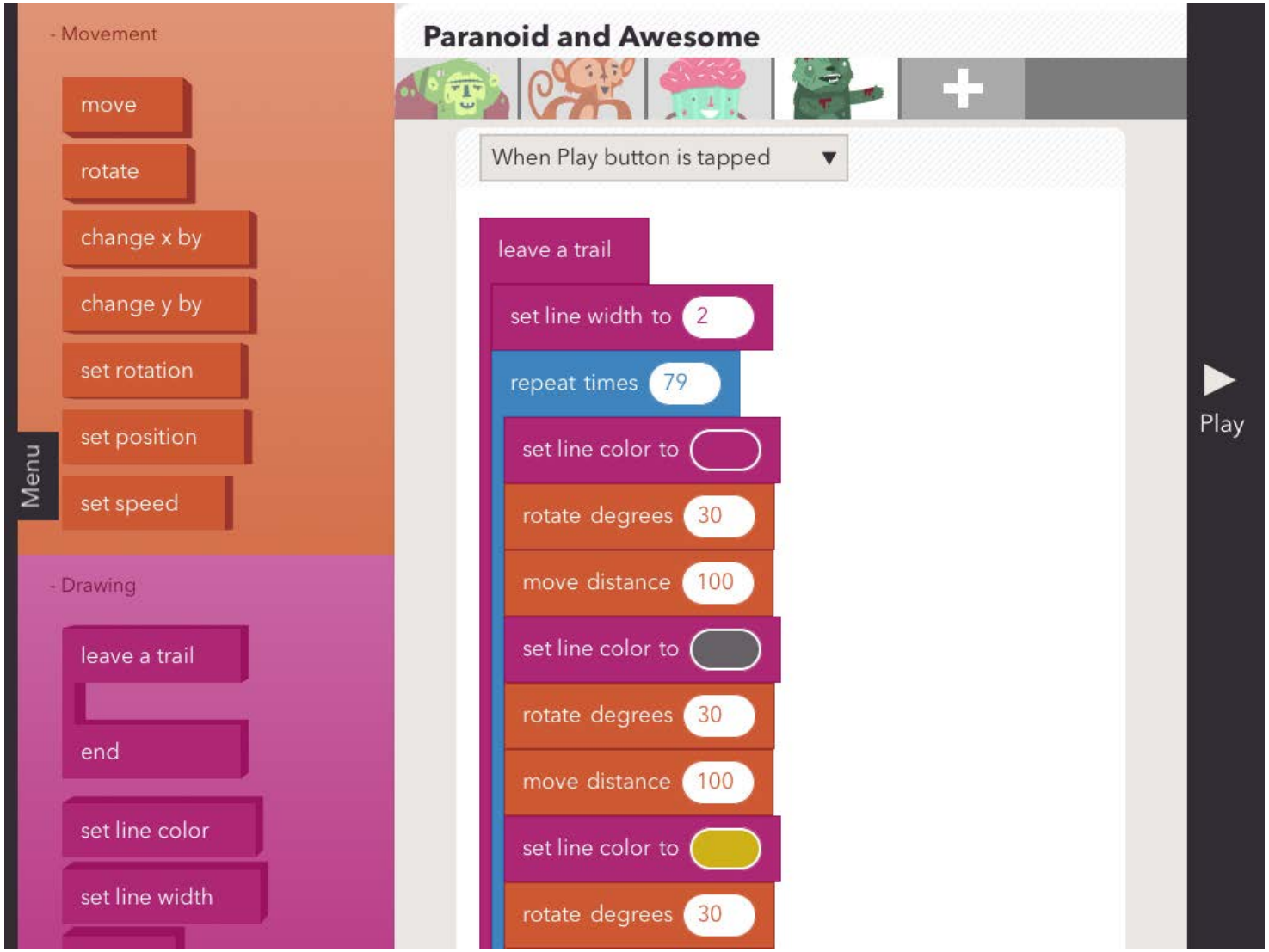
Source: http://www.jwz.org/hacks/worth.pl

Anyone Could Be a Developer…

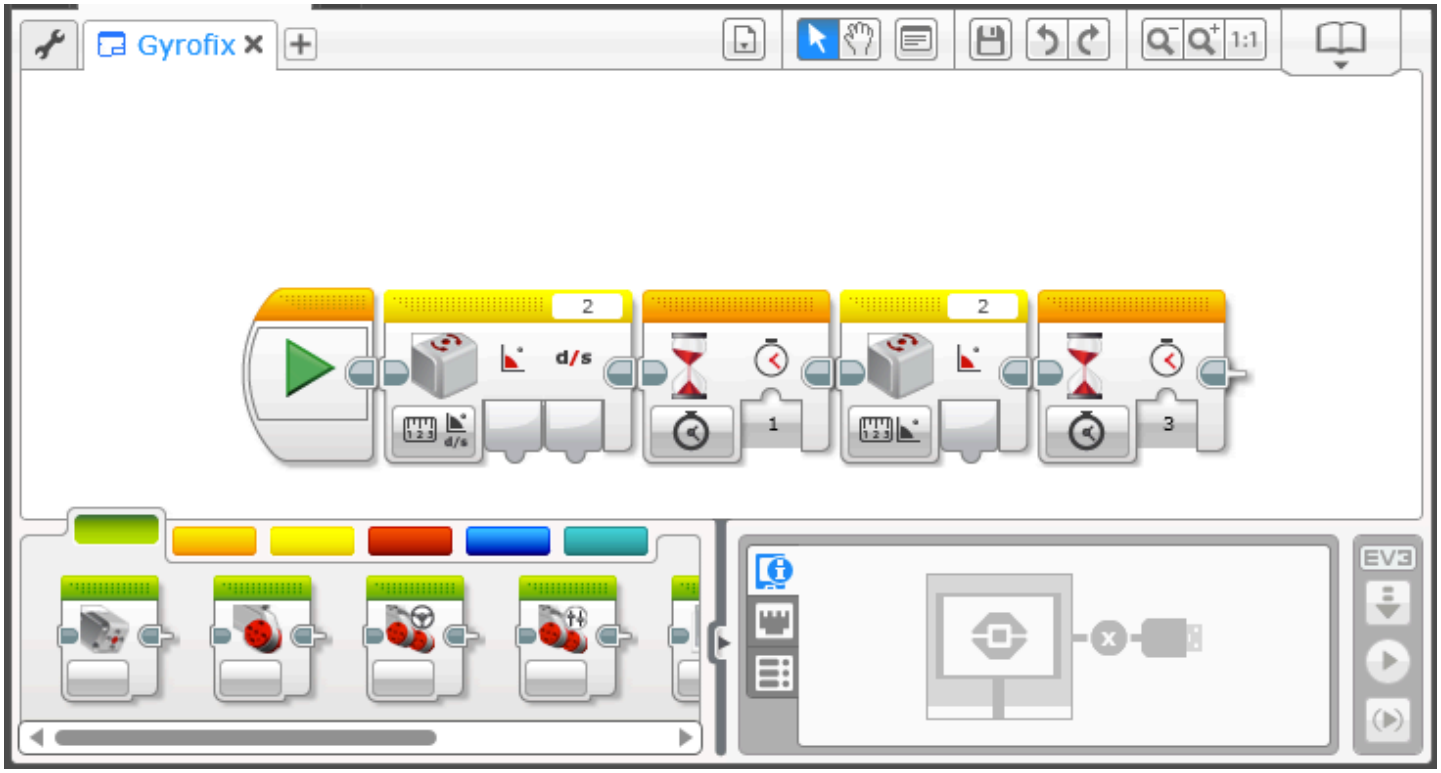


…with the right tools and training

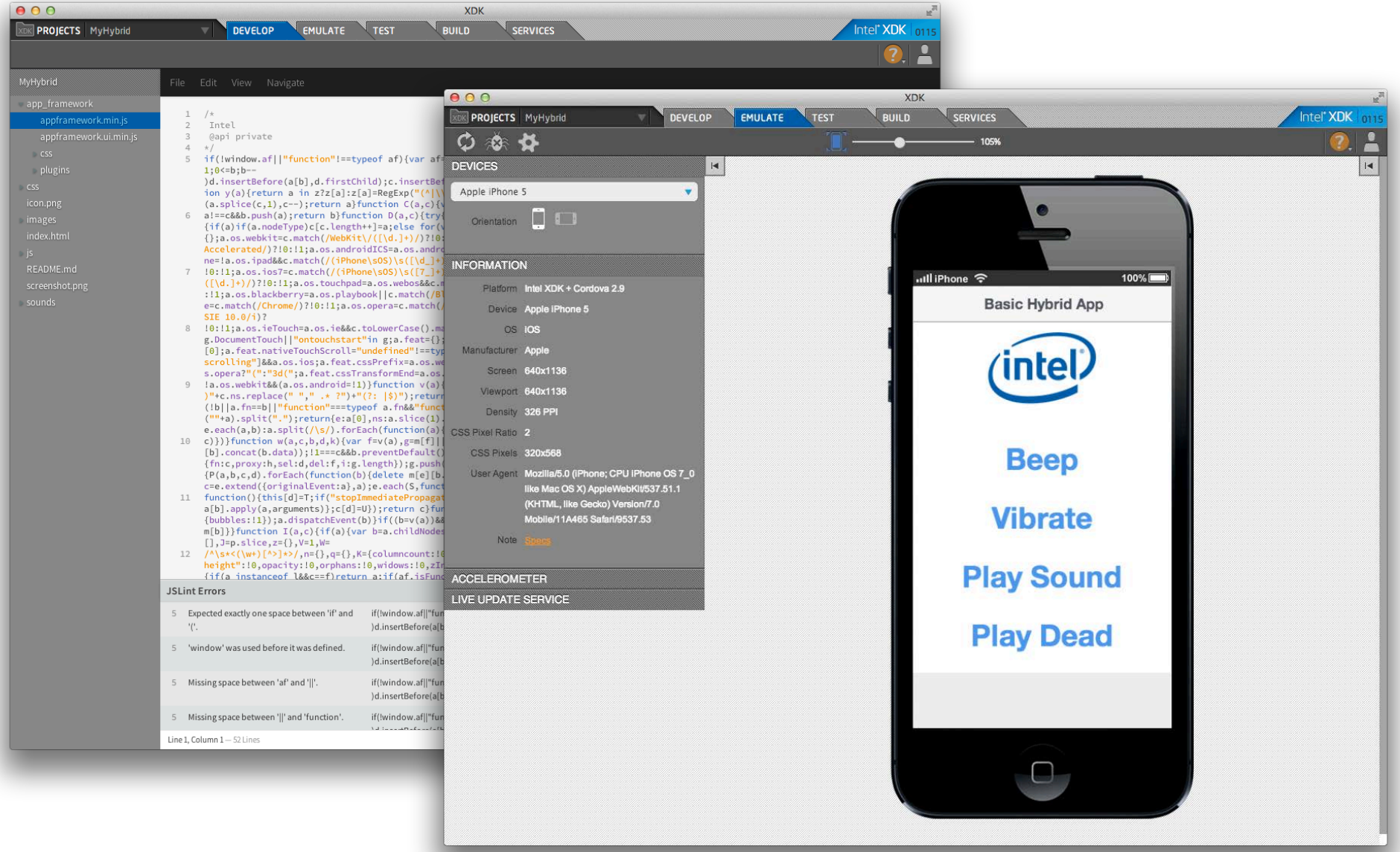
Today, Programming Starts Earlier



Tools Are More Intuitive



WYSIWYG App Design



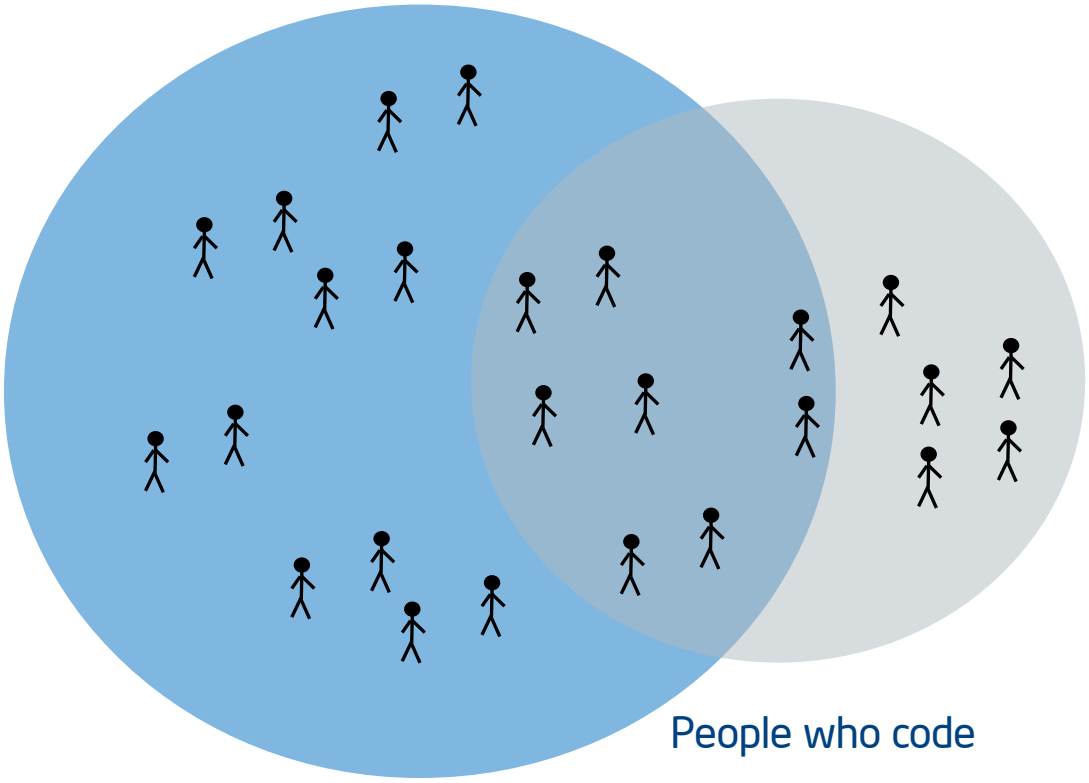
Programming For the Masses

Technology electives in Middle School, High School, and University

Codecademy

Khan Academy

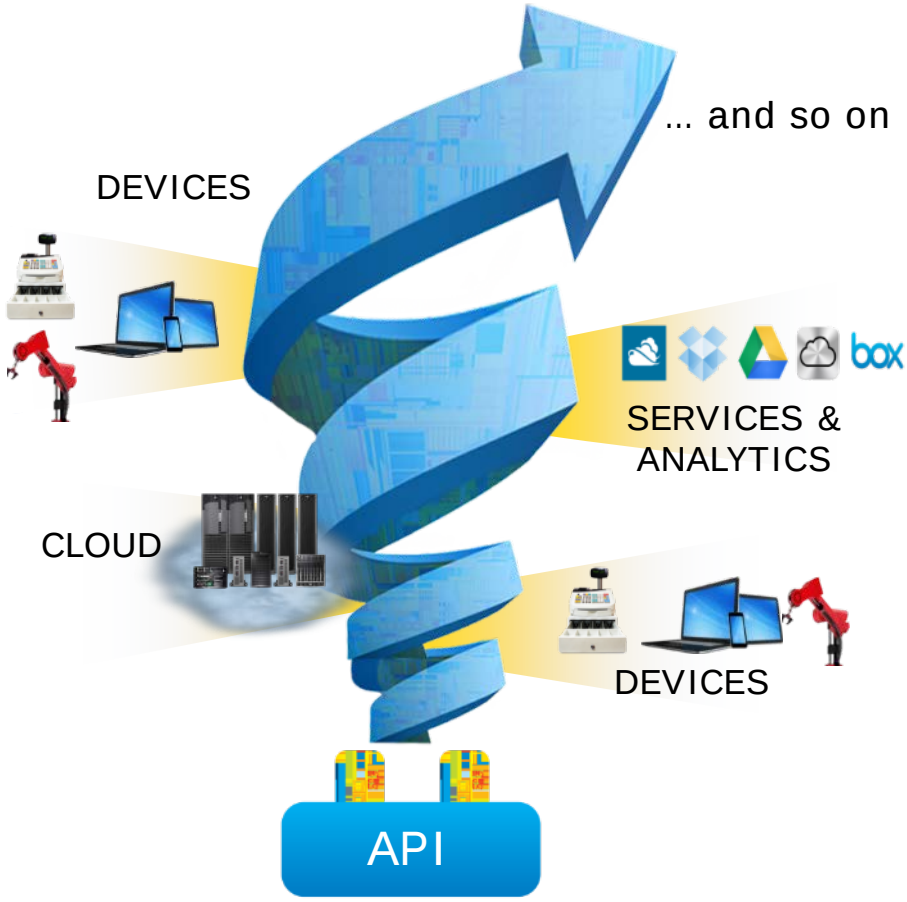
In the not too distant future...



Apps & APIs Turn the Enterprise Into A Platform

Creates a virtuous spiral for innovation & optimization

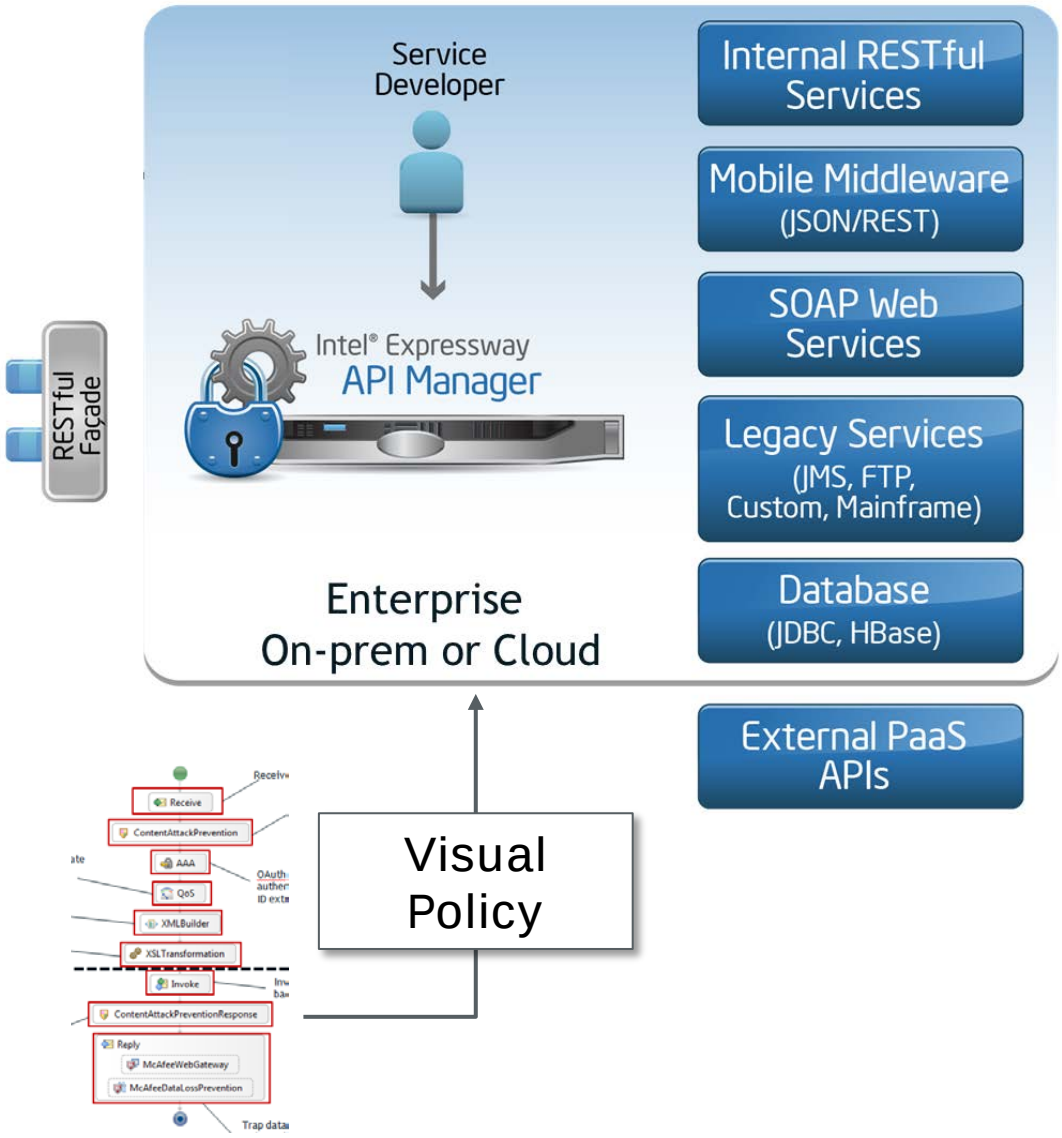
- APIs extend the reach of apps as they become part of distributed data network
- More people & devices use APIs, generating more data
- Analytics & feedback loops optimize
- API to Mobile connection are new client/server
- Developers & APIs are the new currency



Intel is uniquely positioned with hardware, analytics, API portfolios to deliver open approach

Surface Virtually Any Data Service as an API

- ✓ Surface APIs from any enterprise system – from application servers to mainframes
- ✓ Supports Hybrid APIs – Expose one API from local or cloud application servers
- ✓ "Zero coding" visual policy – Reduces Enterprise cost drivers
- ✓ Expose legacy data formats for mobile or consumer devices, including mainframe data, unstructured and semi-structured data



Portals Make APIs Accessible

Room Availability

API Version 1.0

Subscribe

API Provider
Facilities
facadmin

Contact
Facilities Admin
facadmin

conference_rooms | facilities | meetings

Facilities APIs including room status, physical plant status & controls, etc.

Description

Find real-time availability of conference rooms based on in-room sensor readings

Interactive Documentation

API Key: apidoc Refresh

/roomavailability

Show/Hide | List Operations | Expand Operations | Raw

GET /roomavailability Get room availability status

Documentation Makes APIs More Accessible

/roomavailability

Show/Hide | List Operations | Expand Operations | Raw

GET /roomavailability — Get room availability status

Implementation Notes

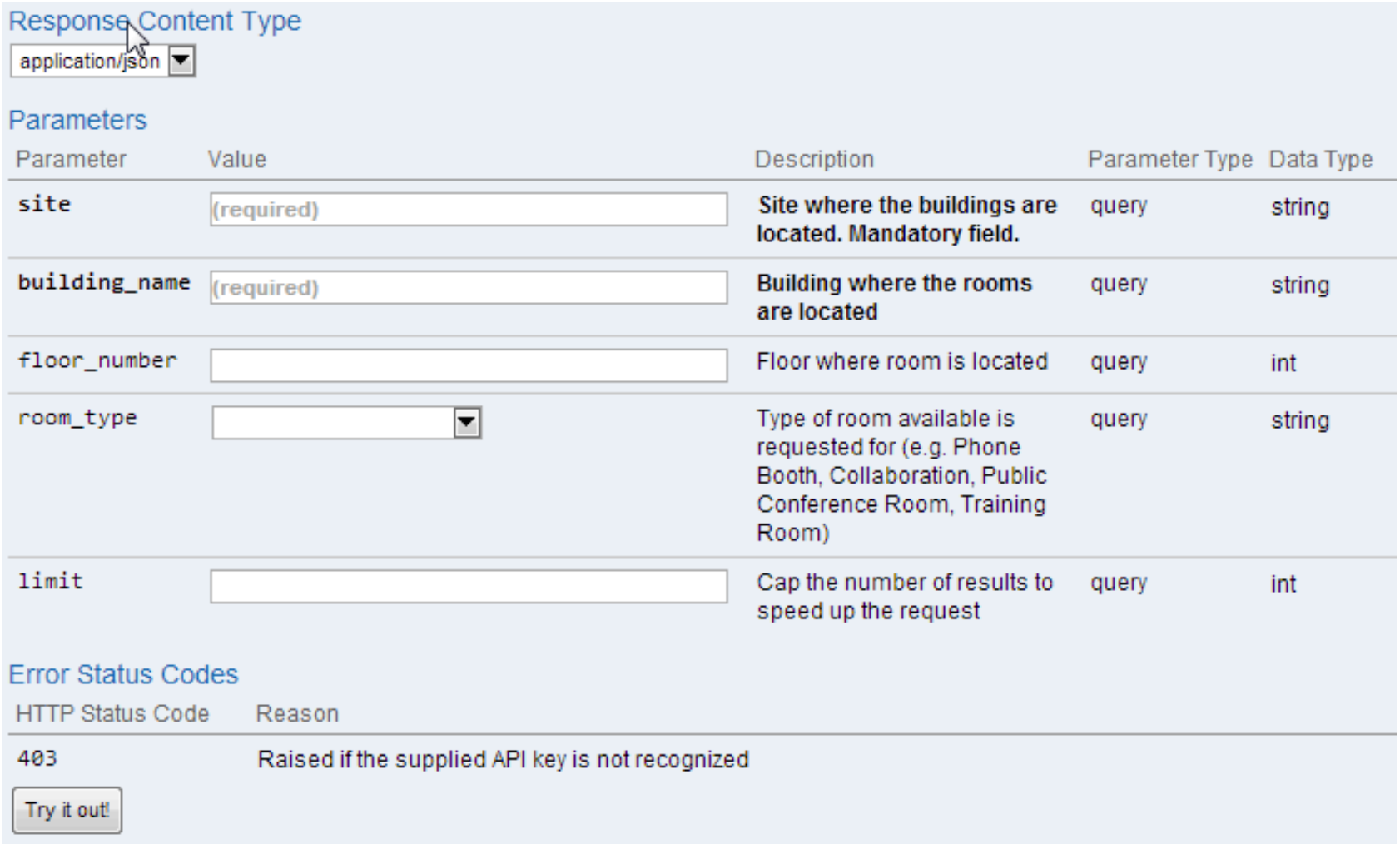
Returns room list with availability status based on location parameters

Response Class

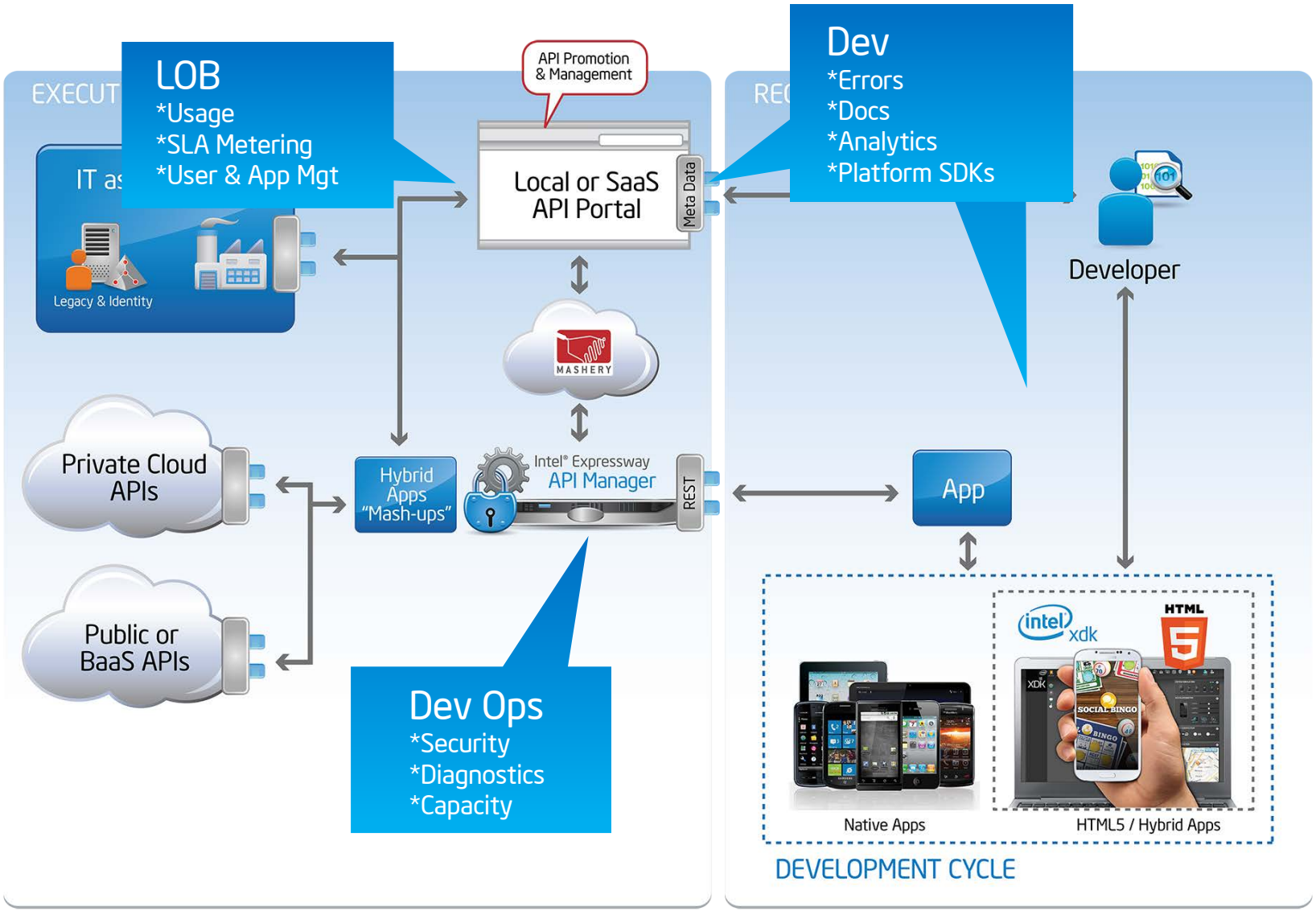
Model | Model Schema

RoomAvailabilityInfo {
  Facility (undefined, *optional*),
  Header (undefined, *optional*),
  Rooms (List[Room], *optional*): List of room status
}
Room {
  BuildingName (string, *optional*): Name of the building,
  Confidence (int, *optional*): Confidence rate (0-100),
  FloorNumber (int, *optional*): Floor of the building,
  IsAvail (boolean, *optional*): Room availability,
  RoomMapImage (string, *optional*): Room location on the map (url of the image),
  RoomName (string, *optional*): Internal room id,
  RoomType (string, *optional*): Room type
}

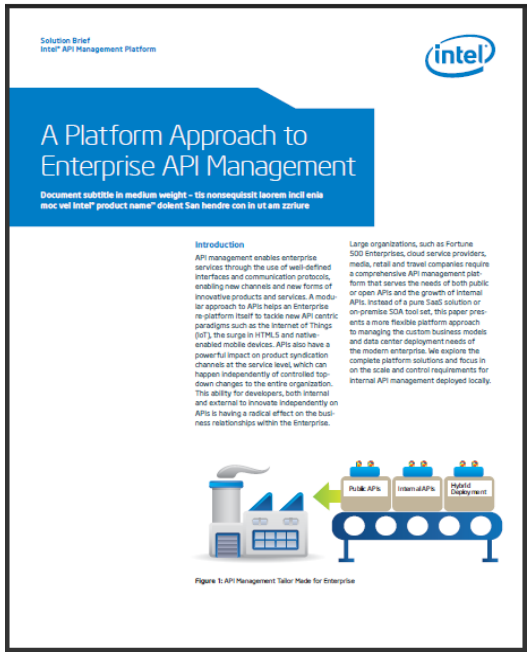
Test The API from Within the Portal



API Management Tooling & Flow



API Resource Center:
cloudsecurity.intel.com

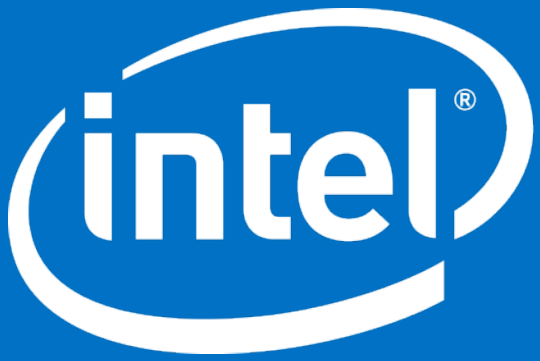


Solution Brief: Internal APIs

Use Case Video

On-demand Webinar: GNAX Health Transitioning SOA Platforms to API Mgt

verizon CABLE ONE fiserv. BlueCross BlueShield Level(3) VOLVO McKESSON Empowering Healthcare CSC WESTJET UBISOFT



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