

City of Scottsdale, Arizona

Interactive Web Maps

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Scottsdale by the numbers:

- Incorporated in 1951
- Population (2010 Census): 217,385
- Area: 185 Sq. Mi.
- McDowell Sonoran Preserve: 54 Sq. Mi.
- Housing Units: 125,329
- Median Household Income: \$72,163
- Median Age: 46.4
- Visitors: ~8.9 Million Annually



GIS Team:

- Part of the IT Department
- GIS Staff: 1-Manager, 2-Analysts, 5-Technicians
- GIS Layers Maintained: 200+
- App Dev Staff: 1-Manager, 8-Developers
- Began in 1989 using MicroStation/MGE framework
- Internal LIS: 1996 Custom built client application
- Web Based GIS: 2000 AutoDesk MapGuide
- ESRI ArcGIS framework adopted as new standard in 2003
- Custom GIS Enabled Applications: 10+
 - Water Work Order
 - Community Development System
 - Code Enforcement
 - Preserve Asset Management
 - Land Information System
 - Street Operations Work Order
 - Vehicle Tracking

Web Map Technology Change:

- MapGuide
 - Required ActiveX control
 - Limited web access to IE browsers only
 - IE over 90% share in 2004, ~25% of desktops today
 - Required daily/weekly conversions of GIS data layers
 - Limited cartography
 - Not Vendor Supported - Abandoned by AutoDesk in 2006
- ESRI ArcGIS Server
 - Rich APIs support JavaScript, WPF, iOS, Android
 - Opened web access to most browsers
 - Tablet friendly
 - Single point of storage - SDE
 - Advanced cartography
 - Vendor supported

Scottsdale Interactive Map:

- Design Philosophy “Keep It Simple”
 - Provide a modern cartographic look
 - Minimum number of controls – allow ease of use
 - Maximum information
- Themes
 - Contain a set of discrete/relatable layers
 - Layers are table driven, not map service driven
 - Featured Themes
 - Hyperlinks
 - Provide links into the map from other web pages
 - Provide links to additional information from within the maps
- Integrate Search With The Map
 - No longer separate web pages
 - Customizable by map theme
 - Search multiple layers with a single search

Application Details:

- JavaScript 3.9 API
- ArcGIS Server 10.1 SP1
- ArcSDE 10.1 SP1, SQL Server 2012
- 6 Dynamic map services, containing 70+ map layers
- 14 Cached map services - base map & aerial photography
- Currently 14 distinct map themes
- Administration is table driven
 - Themes
 - Theme Layers
 - Searches
 - Map Services

Old Search:

The screenshot displays a web application interface for map search. It features a main menu with 'Map Search', 'Home', 'Map Search', and 'Help'. Below the menu is a table of search methods:

Method	Description
By Address	Address-based map navigation.
By Intersection	Map navigation
By APN	Navigate
By OS	Map navigation
By Subdivision	Map navigation
By Owner	
By Key Map	Navigate

Red arrows indicate the flow from these methods to their respective search forms:

- By Address:** Points to the 'Address Search' form, which includes instructions:
 1. Enter address street number (8495, etc.)
 2. Enter valid street direction (N or E) [OPTIONAL].
 3. Enter valid street name (HAYDEN, MCDOWELL, etc.)
 4. Enter valid street type (RD, AV, ST, etc.) [OPTIONAL].
 5. Click 'Continue' button to scan our database for the specified address, and to display the associated map.
 The form has input fields for 'Number', 'Dir', 'Name', and 'Type', and a 'Continue' button.
- By Intersection:** Points to the 'Intersection Search' form, which includes instructions:
 1. Enter first intersection street name. Partial names are acceptable.
 2. Enter second intersection street name [OPTIONAL].
 3. Click the 'Continue' button to search intersection database.
 The form has input fields for 'Street Name #1' and 'Street Name #2', and a 'Continue' button.
- By APN:** Points to the 'APN Search' form, which includes instructions:
 1. Enter desired Assessor Parcel Number (APN).
 2. Separate book-map-parcel components of APN with dashes (EXAMPLE: 130-38-101).
 3. Be sure to include zeros as necessary so that Map field is 2 digits, and Parcel Number field is 3 digits or more (EXAMPLE: 130-38-009).
 4. Click 'Continue' button to search parcel database.
 The form has an input field containing '130-38-101' and a 'Continue' button.

On the right side, the 'Address Search Results' page is shown, featuring a table of search results:

APN	Address	Lot	OS	Status
130-24-011A	3629 N EBANKWATER BL		10-45	A
130-22-012B	3623 N WELLS FARGO AV	12	18-45	A
130-12-017	3029 N MARSHALL WY	8	10-44	A

Below the table, there are instructions for using the results:

- Choose the APN link to view parcel data in the right frame.
- Choose the desired address link to download the associated MapGuide map.
- If the "Status" field is "R", that address is retired (split, subdivided, etc.) and can no longer be used to access these maps.
- Choose the desired OS link to download the IPLOT (static) map.

Old Maps:

- Streets
 - Map Streets
 - Villa Monterey Historic District
- Easements
 - GLO
- Airport Features
 - Runway and Taxiway
 - Noise Contours 2009
 - Noise Contours 2025
 - Noise Contours 2035
 - Noise Contours 2044
 - Overlay Zones
 - Pot 77 Conical Surface
 - 20000 Buffer
- Community Features
 - Fire Stations
 - Cell Towers
 - Faith Communities
 - Billways
 - Parks
 - Schools
 - School Districts
 - Bus Stops
 - Tattoo Parlors
 - Assisted Living Homes
 - Assisted Living Homes Individual Buffers
 - Assisted Living Homes Buffers
- Environmental Features
 - Large Wetlands - 50 cfs
 - EST Landform Areas
 - Fissures
 - McDowell Sonoran Preserve
- Flood Hazards
 - Flood Insurance Studies - Completed
 - FEMA Flood Zones
- Public Safety
 - Critical Care Locations
 - Police Beats
- Survey
 - Survey Control
- Geography
 - City Owned Parcels (in Maricopa County)
 - State Land Parcels
 - QS Grids
 - Jurisdictions
- Miscellaneous
 - CIP
 - Crown Castle DAS Nodes
 - City Boundary
- Aerial Photos 2010 (Flown Nov 2010)
- Aerial Photos 2007 (Flown Nov 2007)
- Aerial Photos 2005 (Flown Nov 2005)
- Aerial Photos 2003 (Flown Nov 2003)
- Aerial Photos 2002 (Flown Dec 2001-Jan 2002)
- Aerial Photos 2000 (Flown Dec 2000-Jan 2000)

Parcel	
APN	317-13-107
Date Entered	07-25-1994
Addr	3022 E RIDGECR DR
MCR	079-40
Lot	98
QS	40-49
Area	86,058.075Q FT
Char Area	Future
Zip	85255
Juris	SC
Subdiv	PIMA ACRES
Zoning	R1-35 ESL
FEMA	AO

1 of 1
[Detailed View](#)

1 / 287,101 19.1 x 41.3 (mi)

DEMO

<http://eservices.scottsdaleaz.gov/maps/public-amenities>

Thank You!

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