ArcGIS Platform: An Introduction for Developers

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2021 ESRI DEVELOPER SUMMIT

Developer Trends

- Developer influence
- May not want to invest in a full technology stack
- Open source is important
- May want to use their own client technology
- In many cases the form of an API is more important than the features it has
- Simple, easy to understand business model that reduces friction of entry

Introducing

ArcGIS Platform

ArcGIS | A Developers View

Extend ArcGIS

ArcGIS Pro

Software

ArcGIS Online

Apps

Software-as-a-Service
(SaaS)

ArcGIS Enterprise

Apps

Server Software

Location
Services &
Content

NEW

ArcGIS Platform

Platform-as-a-Service
(PaaS)

Build Apps

Embed Location

System to System

ArcGIS Platform | A Location Platform-as-a-Service

Location Services

Content &
Capabilities

Developer Experience

Mapping APIs
Open-Source Mapping Libraries
Developer Resources

Business Model

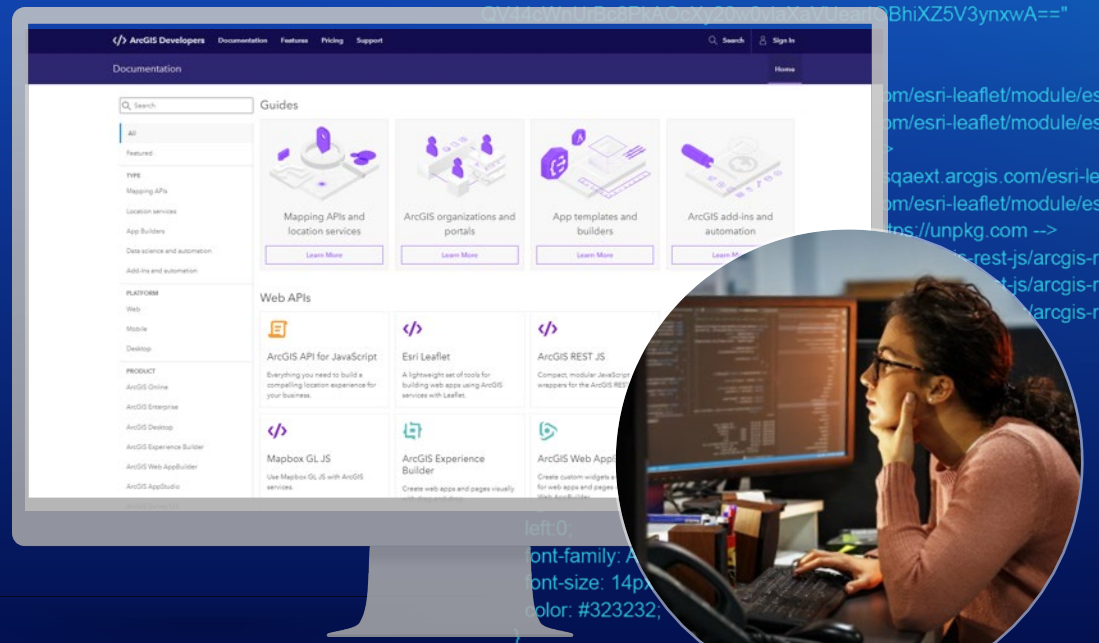
Consumption-Based

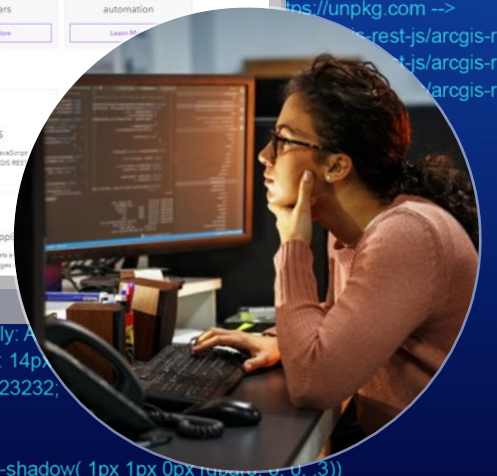
An Intuitive Developer Experience
for Accessing and Using ArcGIS Platform

ArcGIS Platform | Developer Experience

- Your Preferred Mapping API
  - Esri's JavaScript and Native APIs
  - Leaflet
  - OpenLayers
  - Mapbox GL JS
- Industry-Standard Authentication
- Developer Resources & Tools
  - Design system
  - Low Code/No Code Builders
  - Marketplace

developers.arcgis.com

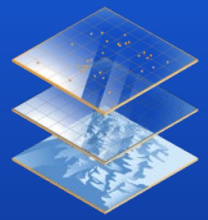




Create a Free Developer Account

ArcGIS Platform | A Collection of Location Services

Extensive Content and Powerful Capabilities

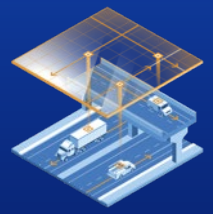


Basemaps

Data Hosting

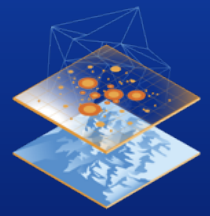
Data Visualization

Geocoding & Search



Routing & Directions

Maps & Data



Spatial Analytics

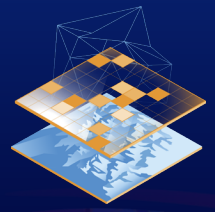
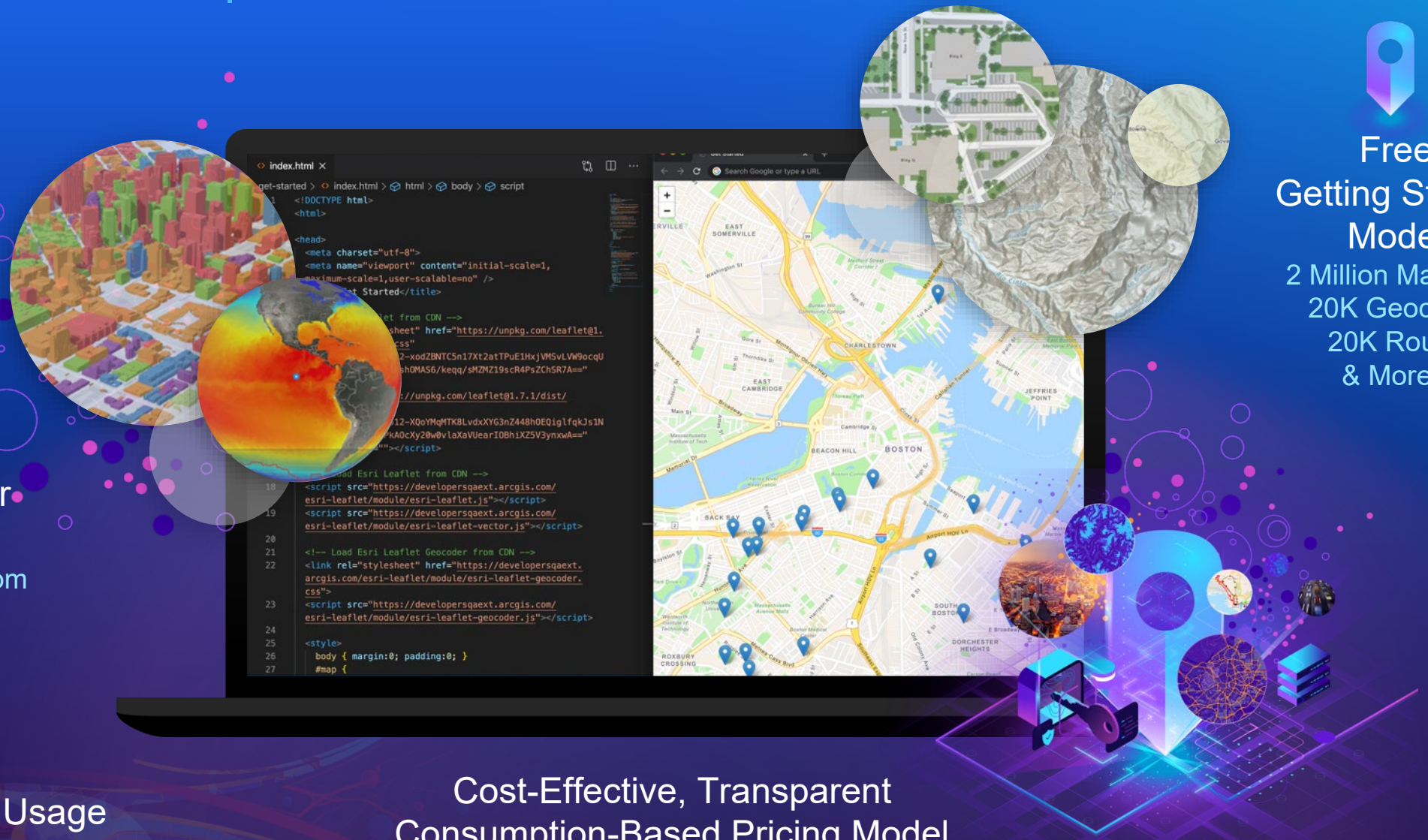


Image Analysis

Real-Time Mapping

IoT Integration

ArcGIS Platform | Business Model



Free Developer Account

developers.arcgis.com

Free Getting Started Model

2 Million Map Tiles
20K Geocodes
20K Routes
& More…

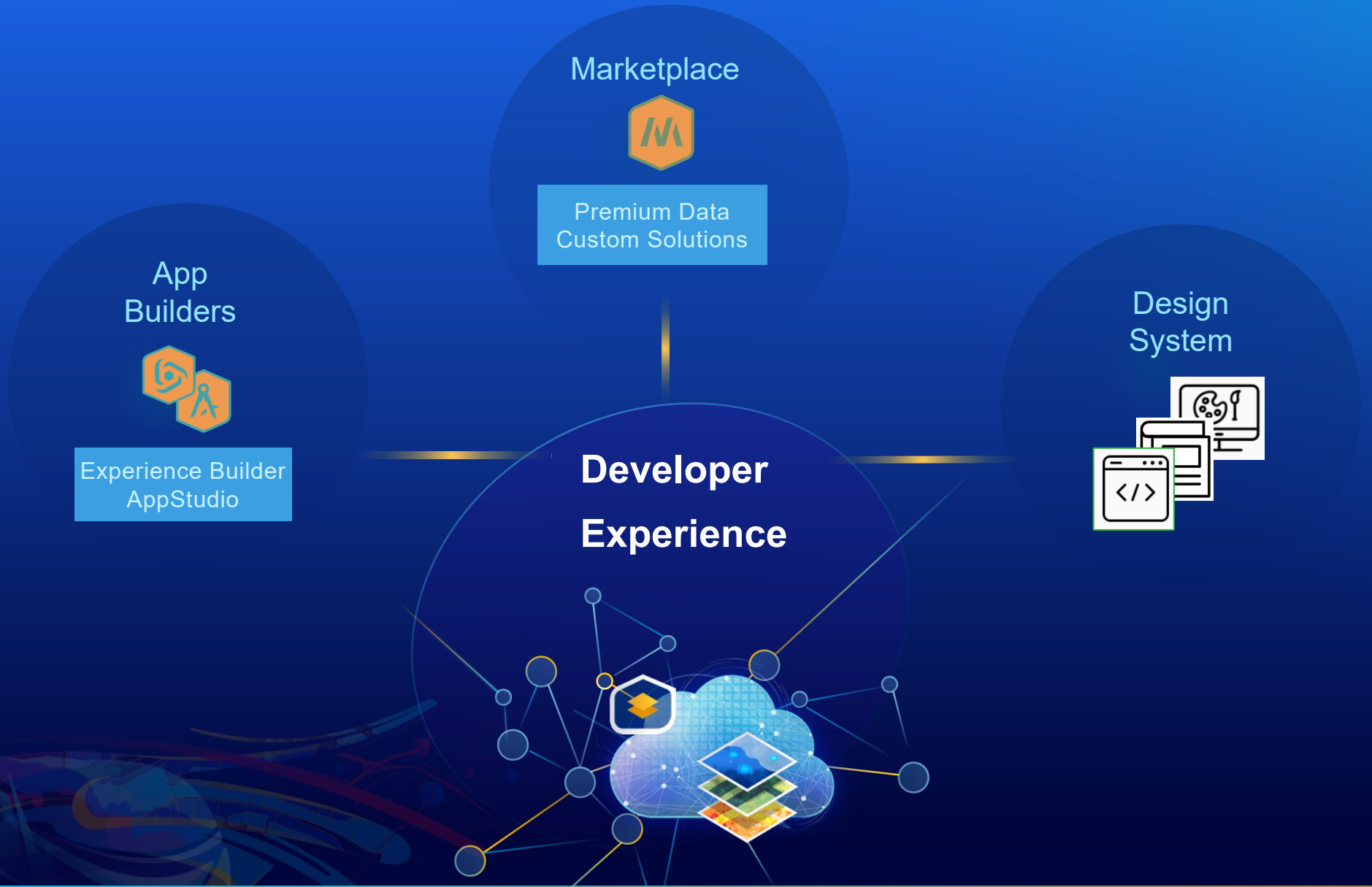
Detailed Usage

Cost-Effective, Transparent Consumption-Based Pricing Model

Developer Experience

Euan Cameron

ArcGIS Platform



A Design System Is…

NEW

Design Principles

- Widely applicable laws, guidelines, and design considerations which designers apply with discretion.
- Two types of design principles: general, business specific

Design Guidelines (Designer Doc)

Recommendations on how to apply design principles to provide a positive user experience (do & don't help doc)

- Style & design
- Sound, motion, interaction
- Icon, UI components, design patterns
- Voice & tone
- Examples

Developer doc
Icon Library
Web components - UI Framework

Tools

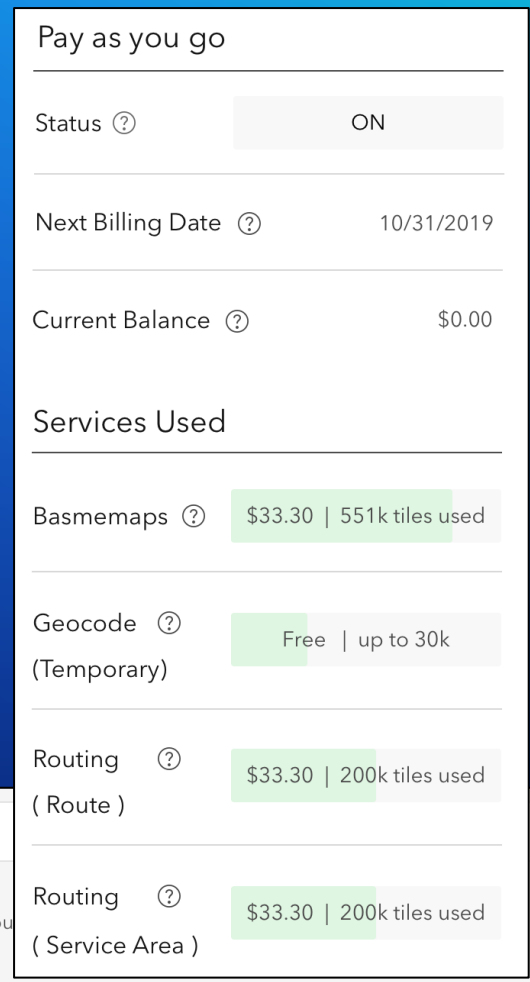
Color tool, color palette tool, type scale generator…

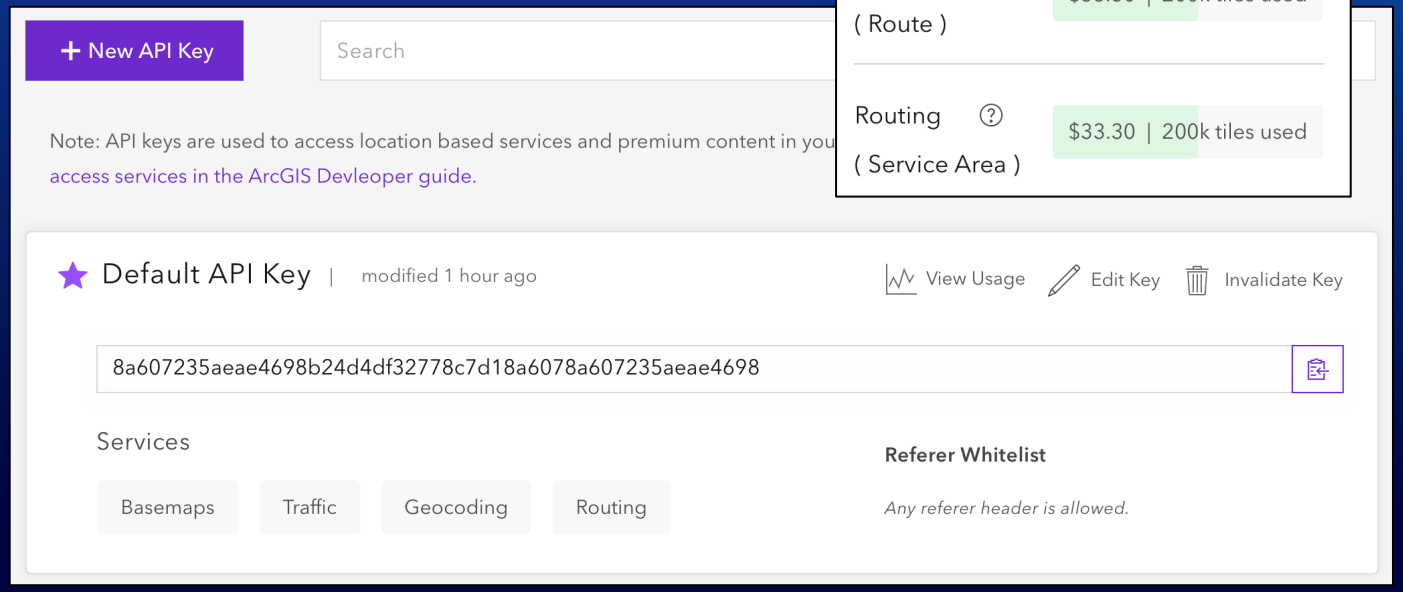
Components - UI Kit

What's new?

A New Developer Experience

- **Support for 3rd party open-source mapping libraries**
  - **Open Layers, Leaflet, Mapbox GL JS**
- **Feature Services emit vector tiles**
- **Additional Authentication method (API keys)**
- **Detailed service usage**
- **Full consumption model**
- **Developer guide**





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