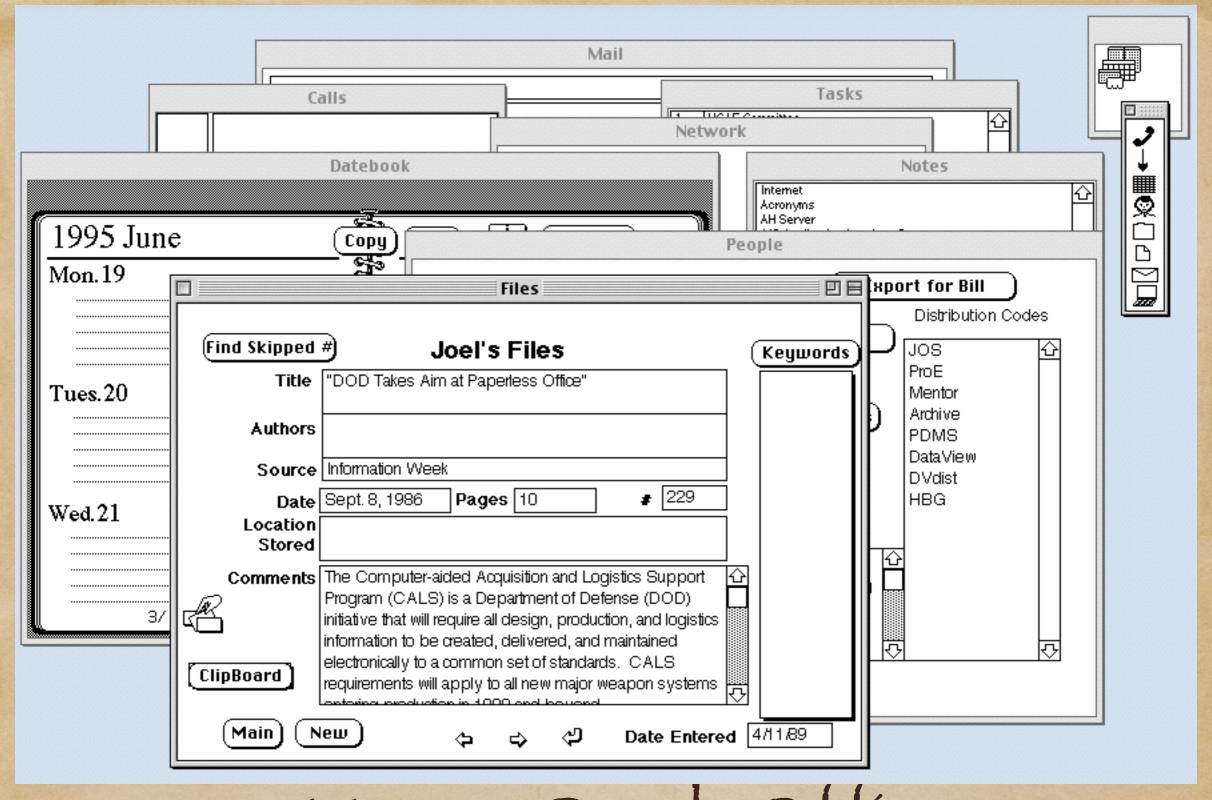
LIVE CODE

Cross-Platform Development from RUN REV

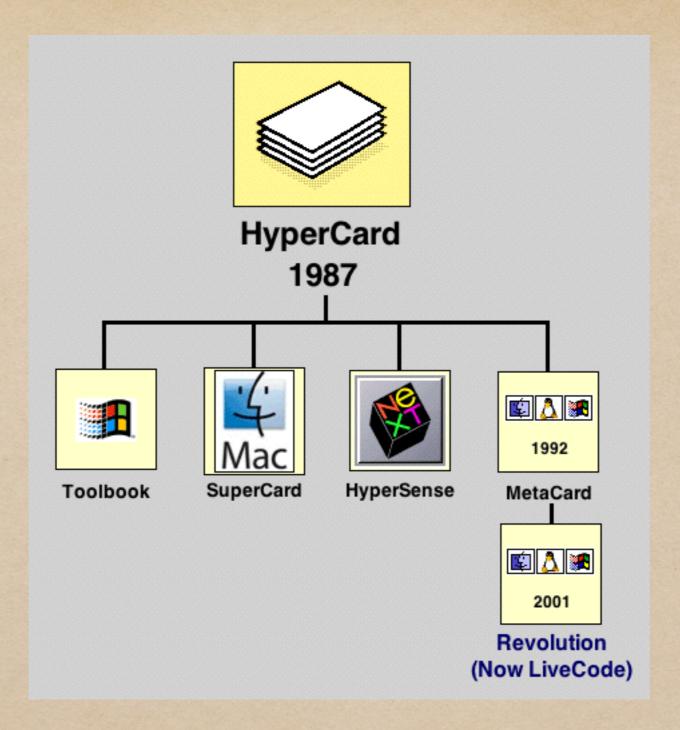
MobileMarchTC March 20, 2014 Joel Gerdeen

My Background

- First computer use in at GM Tech Center summer job
- Minicomputer, main-frames & home computers
- Engineering IT professional at 3 Fortune 100 companies
- Computer historian (hoarder)
- Secretary of Mini app'les user group
- Partner in Primmo Apps iConnexUs startup/shutdown
- Registered Android & Apple iOS developer



HyperCard Office



Source: BYU DigHT 210 Course

Why you should be interested

- Livecode was a finalist in a recent review of Mobile Development Tools by Dr. Dobb's
- Xamarín, Sencha, Corona, Titanium,
 - PhoneGap

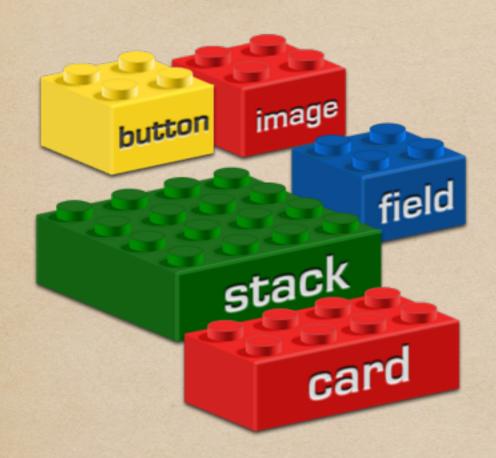


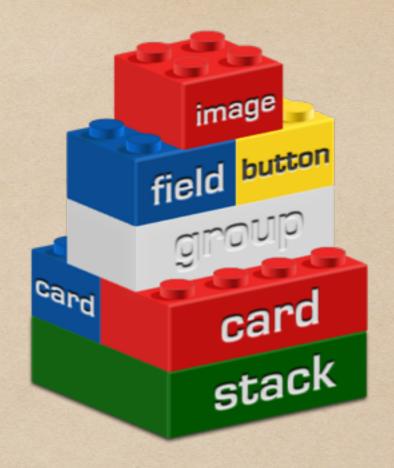
Heritage & History

- Hypertext/HyperMedia Ted Nelson 1963
- Hypercard Apple 1987
- ◆ WWW Tim Berners-Lee 1989
- RunRev Edinburgh, Scotland 1997
- Metacard 1992, Acquired by RunRev 2003
- LiveCode New name 2010
- Kickstarter Campaign Open Source 2013

Supported Devices

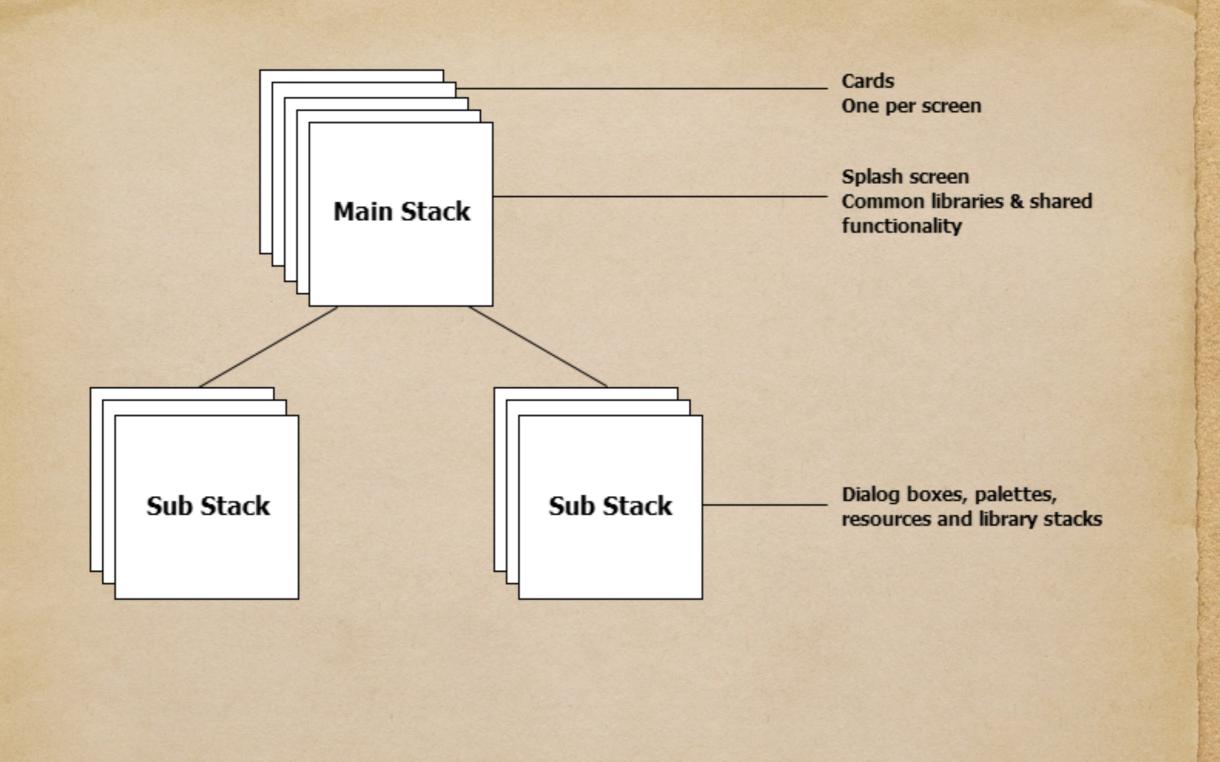
- Development Mac, PC, Linux
- Delivery Mac, PC, Linux, iOS, Android, servers
- Future Raspberry Pi, Windows 8 Mobile,?





Building Block Approach

Source: BYU Digital Humanities & Technology

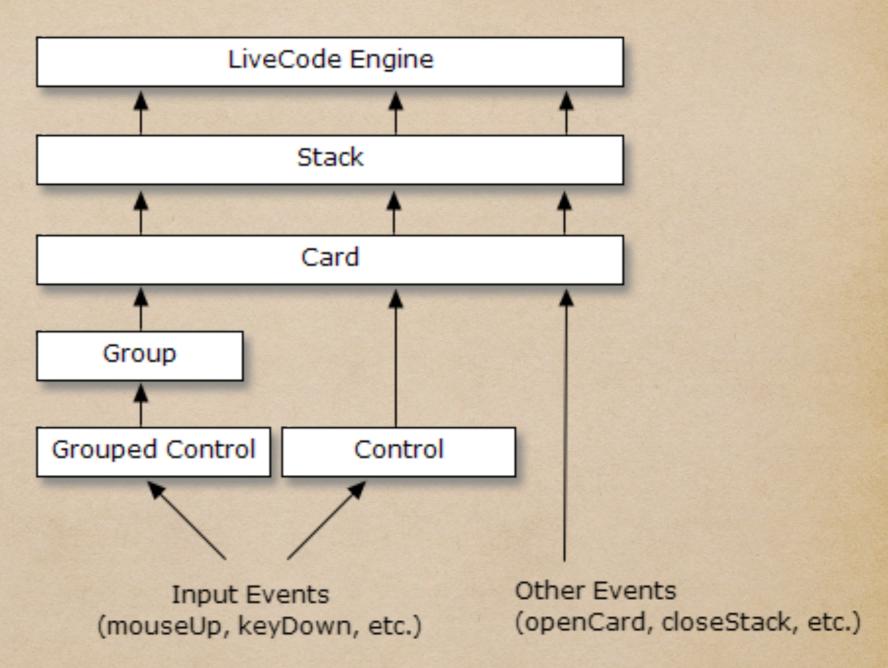


LiveCode Language

- English-like with minimal syntax, self-documenting
- LiveCode: sort lines of theText descending by last item of each
- JavaScript: the Text = the Text.split("\n"); the Text = the Text.sort(sort_item_3).join("\n"); function sort_item_3(line1, line2) { line1 = line1.split(","); line2 = line2.split(","); if (line1[2] == line2[2]) return 0; else if (line1[2] > line2[2]) return -1; else return 1;}

Example source: RunRev CEO Presentation

LiveCode Message Path (simplified)



Demo

- Show the development system
- Create a simple app with full screen scaling
- Configure standalone parameters
- Show app running in iOS and Android emulators

000		Standalone Application Settings for Demo5 - OS X								
G eneral	Stacks	Copy Files	X Mac	Windows	Linux	iOS iOS	Android	Bug Reports		
Build for:	✓ Mac	OS X (Universal)	Ма	ıc OS X (Power	PC Only) (Mac OS	X (Intel Only)		
Application Icon: Use None Choose										
Document Icon: Use					None C	Choose				
Icons to display on ask and answer dialogs ————————————————————————————————————										
Application Icon: Small Application Icon:										
PLIST ————————————————————————————————————										
Enter the information and have Revolution write the PLIST file for you Choose a PLIST file to import into the application bundle										
	Name:	Demo5 Document Type:								
Sig	nature:	???? Document Extension:								
Version Information										
Short '	Version:	1.0.0.0		Lo	ng Version:	Demo5	1.0.0.0			
Get Info	o String:	Demo5 Version	1.0.0.0							
Copyright	t Notice:	2014 All rights reserved worldwide								
Bundle Id	Bundle Identifier: comdemo5									

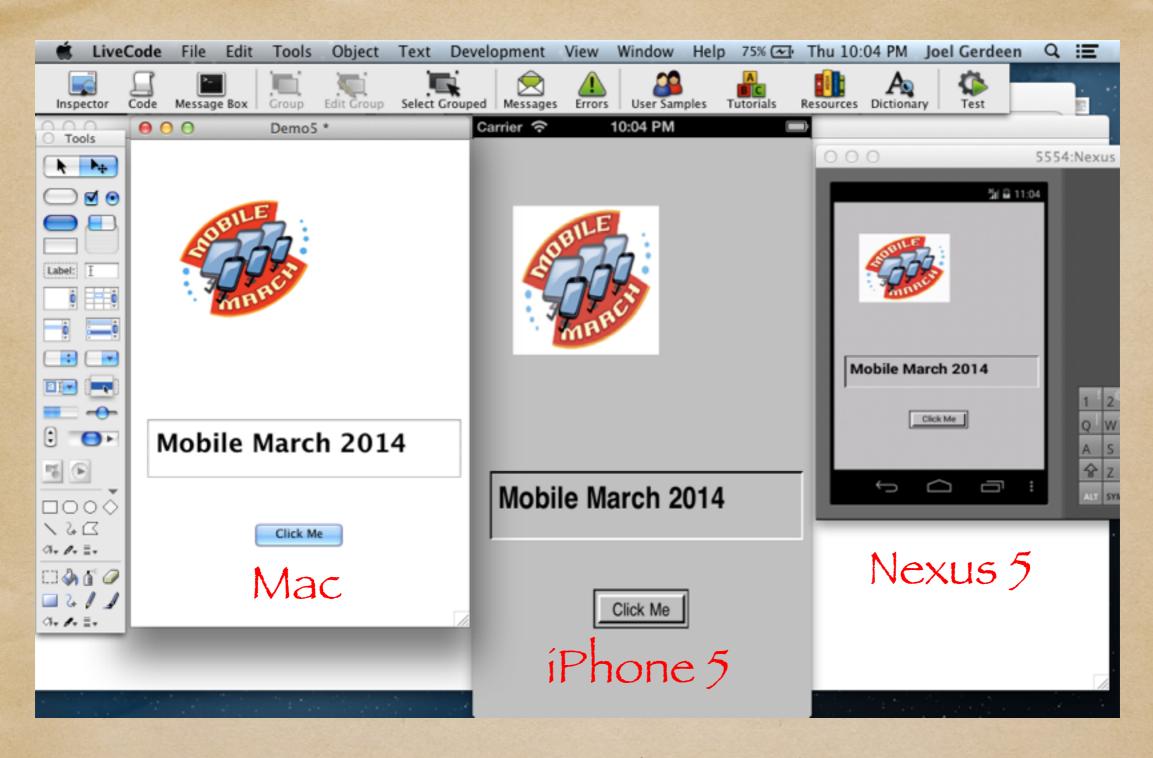
Mac Setup

● ○ ○ Standalone Application Settings for Demo5 – iOS								
	ios ios	Android	Bug Reports					
Build for: ✓ iOS iPod and iPhone 4.3 or later								
Basic Application Settings		Icons	Prerendered Icon					
Display Name Demo5 Version 1.0.0	Persistent WiFi	File S	Sharing		iPhone	O		
Internal App ID com.yourcompany.yourapp	Push Notification	s			Hi-Res iPhone	Ø		
Profile (none) ‡		Required	d Prohibited	n/a	iOS 7 Hi-Res iPhone	©		
Externals revZip revXML SQLite	Telephon	у (0	•	iPad	©		
☐ MySQL ☐ PDF Printing ☐ Encryption		\sim	0	•	Hi-Res iPad	Ø		
	SM: Still Camer		0	●●	iOS 7 iPad	©		
Status Bar	Auto-Focus Camer		8	•	iOS 7 Hi-Res iPad	©		
iPhone Status Bar 💿 Visible 🔝 Hidden	Front-Facing Camer	~	ŏ	ĕ	Splash Screens			
iPad Status Bar 🕟 Visible 💮 Hidden	Camera Flas		Ō	ullet	iPhone	0		
	Video Camer		0	•	Hi-Res iPhone	0		
Status Bar Style Default \$	Acceleromete Gyroscop	\sim		⊙⊙	4 Inch iPhone	3		
	Location Service		ŏ	ŏ	iPad Portrait	8		
Orientation Options	GP	s 🔘	Ŏ	⊙⊙	iPad Lscape	8		
iPhone Initial Orientation Portrait ‡	Magnetomete	_	0	<u>•</u>	Hi-Res iPad Portrait	8		
iPad Supported Initial Orientations:	Microphon Game-Ki	_	8	●●	Hi-Res iPad Lscape	8		
Portrait Portrait Upside-Down	Wif		ŏ	ŏ	Custom URL Scheme			
	OpenGL ES 1.	1 Ŏ	Ŏ	\widecheck{ullet}	eastoni one seneme			
Landscape Left Landscape Right	OpenGL ES 2.		Ŏ	\widecheck{ullet}	URL Name			

iOS Setup

● ○ ○ Standalone Application Settings for Demo5 - Android									
* -	A X		<u></u> io	s 🏐	*				
General Stacks	Copy Files Mac	Windows	Linux iO	S Android	Bug Reports				
Build for: Android									
Basic Application Settings Requirements and Restrictions									
Label	Demo5		Minimum	Android Version	2.2 - Froyo ‡				
Identifier	com.yourcompany.yourap	р		Requi	ired Used n/a				
Version Name	1.0.0 Version Code	e 1	Camera	Camera C Autofocus					
Icon		©		nera Flash 💮) ()				
Splash		Ø		nt Camera					
Spiasii		0		lerometer C Telephony					
Signing	Sign with my key	‡		ony CDMA					
Key		@		hony GSM	δ δ				
				ake Touch					
Install Location	Internal Storage Only	<u></u>		uchscreen (
App Billing Key				h Distinct					
Externals	revZip revXML	SQLite	Multitouch	Jazzhand C) ŏ ŏ				
	MySQL SSL & En	cryption	Application	Permissions					
Custom URL Scheme			Write E	xternal Storage	Fine Location				
Push Sender ID			Interne		Coarse Location				
_			Camera		Vibration				
Status Bar Icon		©		Billing	Idle Timer				
User Interface Options			_	ontacts	Ad Support				
Initial Orientation	Portrait	‡							
Status Bar (Visible Hidden								

Android Setup



LiveCode IDE with 3 emulators

App Scaling

- Adapts to different device sizes
- set the fullscreenmode of me to empty default mode
 - exactFit
 - Letterbox
 - noBorder
 - noScale

Not just a mobile development tool

- Capable of enterprise level development
 - KLM Booking System
 - Univ of Vienna Management of 100,000 student & staff
 - USGS Satellite Control
 - FrontDocs Document Management
- http://livecode.com/showcase/

Plugins/Externals

- Native look & feel
- Animation Engine
- ChartMaker
- Word Import/Export
- FileMaker Migrator
- Sound Libraries
- User Registration
- Plus many more

Plugins

- · Mob-GUI
- Air Launcher
- Zygodact
- Animation Engine
- App Design Kit
- ChartMaker
- Data Grid Helper
- DataTree

- Quartram Reports
- WheeLib
- WordLib
- WordReport
- FMpro Migrator
- mergExt

Resources

- Free Community open source version,
 Commercial version required to publish
- Tutorials, University, Academies
- Newsletter & Blog
- ◆ Forums & Email list
- Sharing Portal
- RunRevLive Conferences
- on-Rev hosting service

Contact Info

- Joel Gerdeen
- Email: jgerdeen@mac.com
- Twitter: @njerd
- Website: njerd.us/blog/
- Check back for presentation materials