



Bring your App to the Big Screen

TV Design 101

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What is Google TV?

Android, optimized for TV

Google Chrome

Google Services

Live TV Integration





The story so far

- Launched major update in October
 - Simplified UI
 - Improved search and browse
 - Improved YouTube experience
 - Android apps & Google Play store





New Google TV Devices

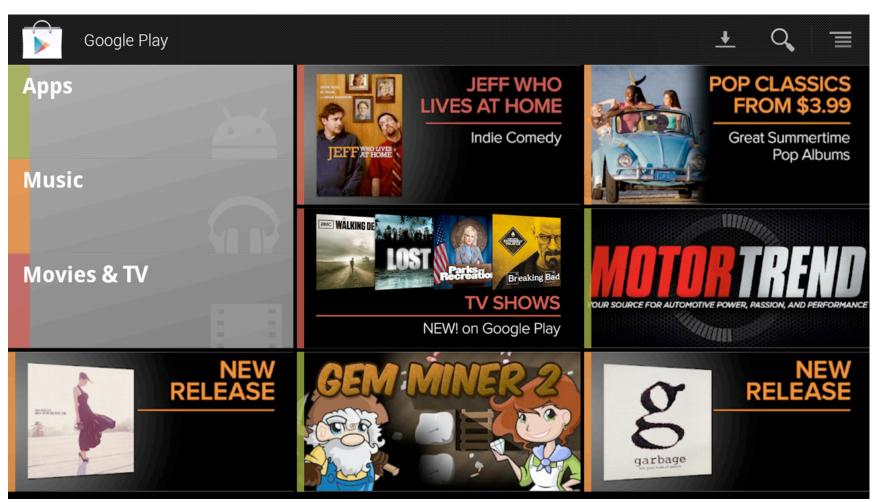
- ARM processor
- Available in USA and Internationally
- Check them out in the Google TV Lounge





Updated Google Play Store

- New version of Google Play Store for Google TV
- Subscription billing support
- Ability to purchase music, movies and TV shows directly from Google Play







Content & Video Playback

- Get your Content on Google TV, 1:30pm, Room 6
 - Video & Audio Playback
 - Streaming Media
 - DRM





Multi Screen Applications

- Command and Control in the Living Room - Building Second Screen Apps for Google TV, 2:45pm, Room 1
 - Building Muti-Screen and Second Screen applications





The pitch - lots of viewers

In the US, homes have an average of **2.5** people and **2.93** TV sets

The Nielsen Company: Television Audience Report, 2010

In the US, 292 million people watch on average 5 hours of TV per day

The Nielsen Company: Three Screen Report, 2010



The pitch - continued growth

By 2015 over **500 million** connected **TVs** will have shipped and connected **TVs** will account for **47% of** all flat panel **TVs** shipped.

DisplaySearch: Quarterly TV Design and Features Report, Q2 2011



The pitch - potential

- Connected TV usage is increasing
- Users are becoming accustomed to accessing the content they want on many different devices
- Reach and delight users when they' re looking to be entertained
- Google TV is an open apps platform for developers to tap into this growth



Build Apps: Google TV Users





Develop for TV



Build a Android app Distribute on Google Play





Develop for TV



Build a Web app Accessible though Google Chrome



Design for TV











Big





...but small

- TEXT
- < Information density
- < Interaction
- Not just a big Tablet => more like a PHONE





Traditionally designed consumption not

Far away = lower information density

Ironically, not so good for reading a lot of

Big Sound: Great for video, and listening





Pandora

Similar design for TV and mobile







CNBC



RT REAL-TIME QUOTES

Symbol / Company

SEARCH

Go

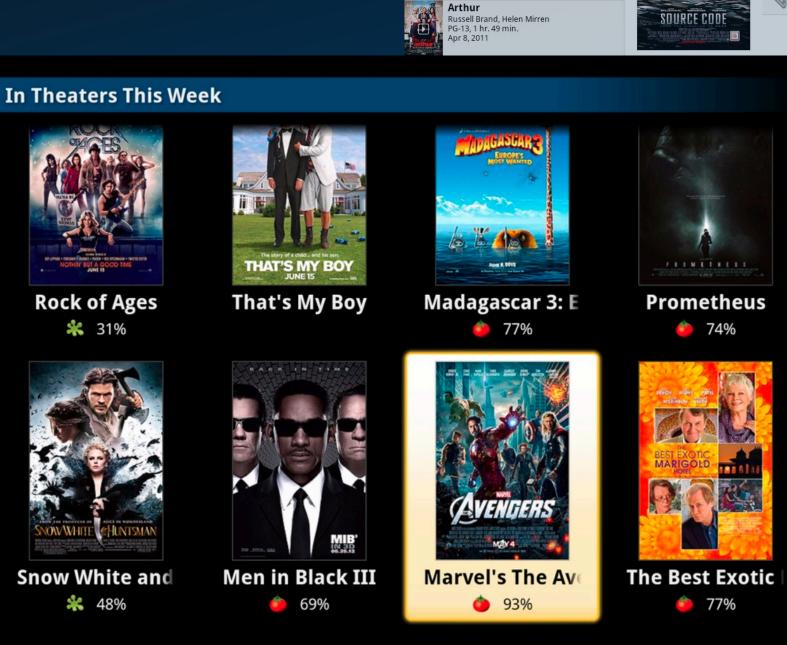


Flixster

Simplified for TV









and prevent the next attack. Filled with mind-boggling twists and hearttion-thriller directed by Duncan Jones (Moon) also starring Michelle a (Up in the Air, The Departed), and Jeffrey Wright (Quantum of Solace, se, Science Fiction & Fantasy



4 12:53 ₹ 1



D-Pad







D-Pad Tips

- "Lean back"
- No-look navigation
- Highlight and Select



Cursor







CursorTips

- Cursor != Touch
- Accelerate nav
- Low-twitch
- BIG hit targets





Selection and Focus



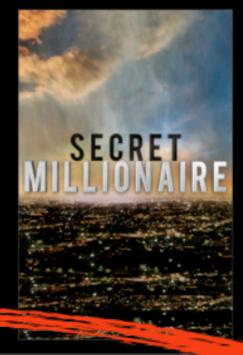
Trending This Week



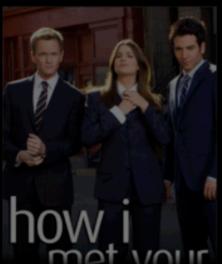








Comedy







Howeman (2011-Present)

Andrew Carlson (David Hornsby) has so immersed himself in his weekly etiquette column that he seems to have lost touch with modern society....

Press 1-5 to rate

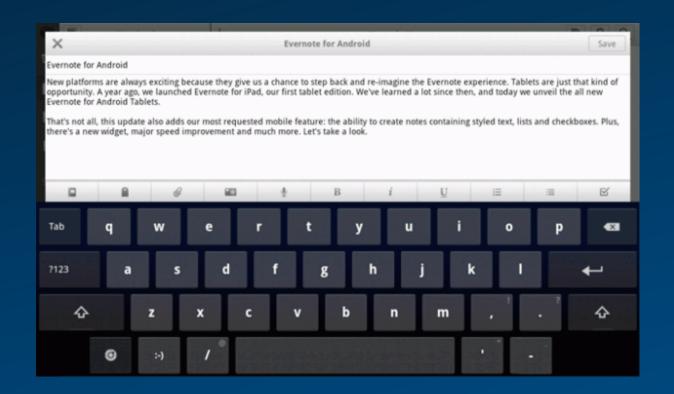
■ Press menu for options



Keyboards







Keyboard Tips

- QWERTY this gen
- Optional next gen
- Support OSK



Multi-screen Experiences









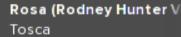
Q My Library

ADD MUSIC | GET ANDROID APP







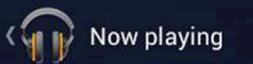












Easier on the Eyes

SONG

Can't You Tell

ARTIST

Vetiver

ALBUM

Errant Charm



Design Tips

- Dark gradient BG
- BIG icons, fonts
- Image-centric
- Less chrome, lines
- Content breathes

1:26







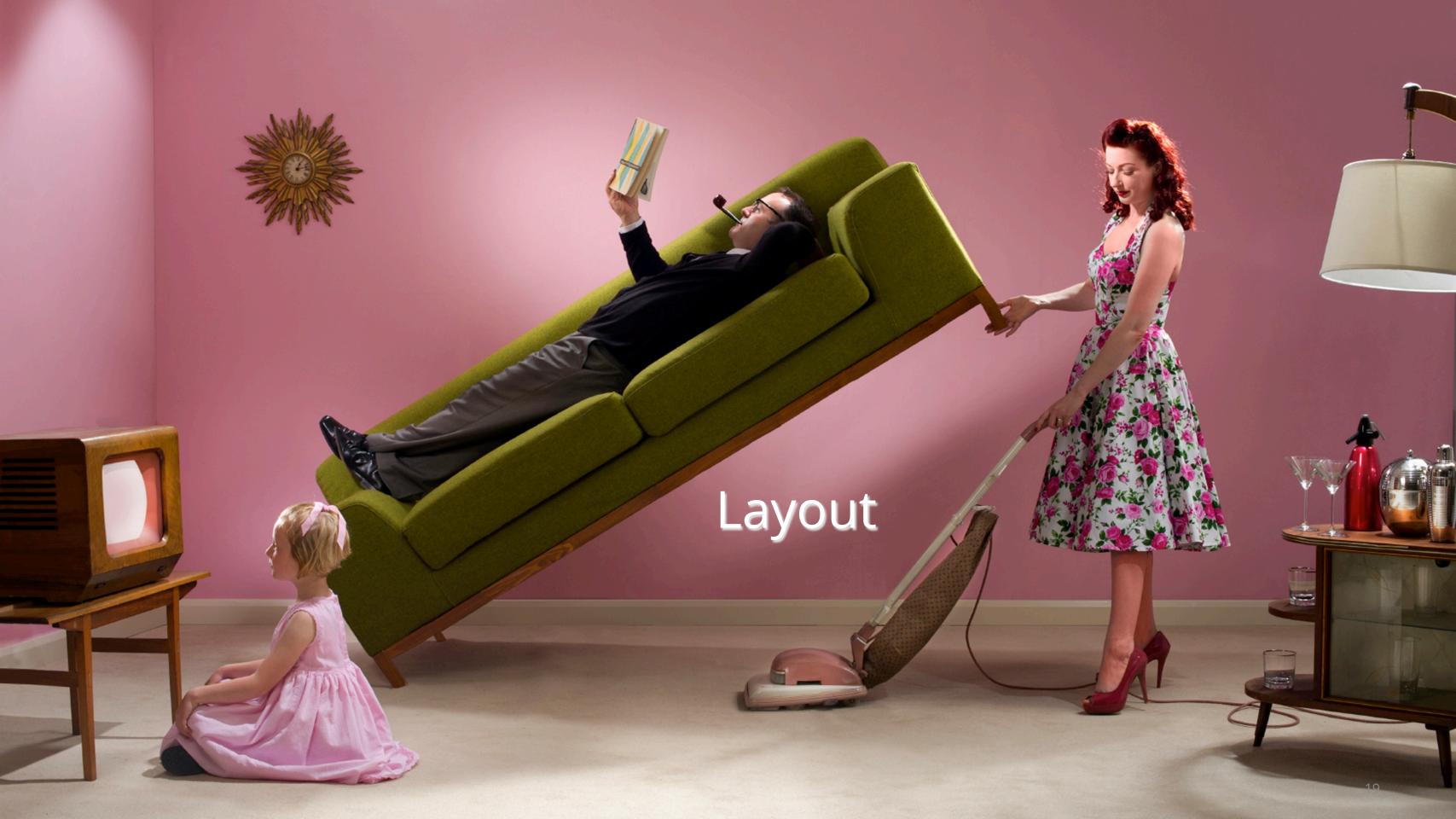




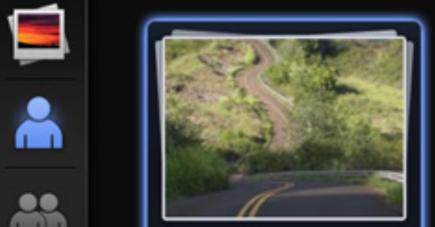




4:25



So, let's take a simple UI...

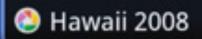












Stratford, ON

Appalacia 2008

Savannah, Georgia

🙆 Kuala Lampur, Ma...











Koya, Japan

Australia

Himeji, Japan

Kyoto, Japan

New York City













And put it on an old-fashioned TV...

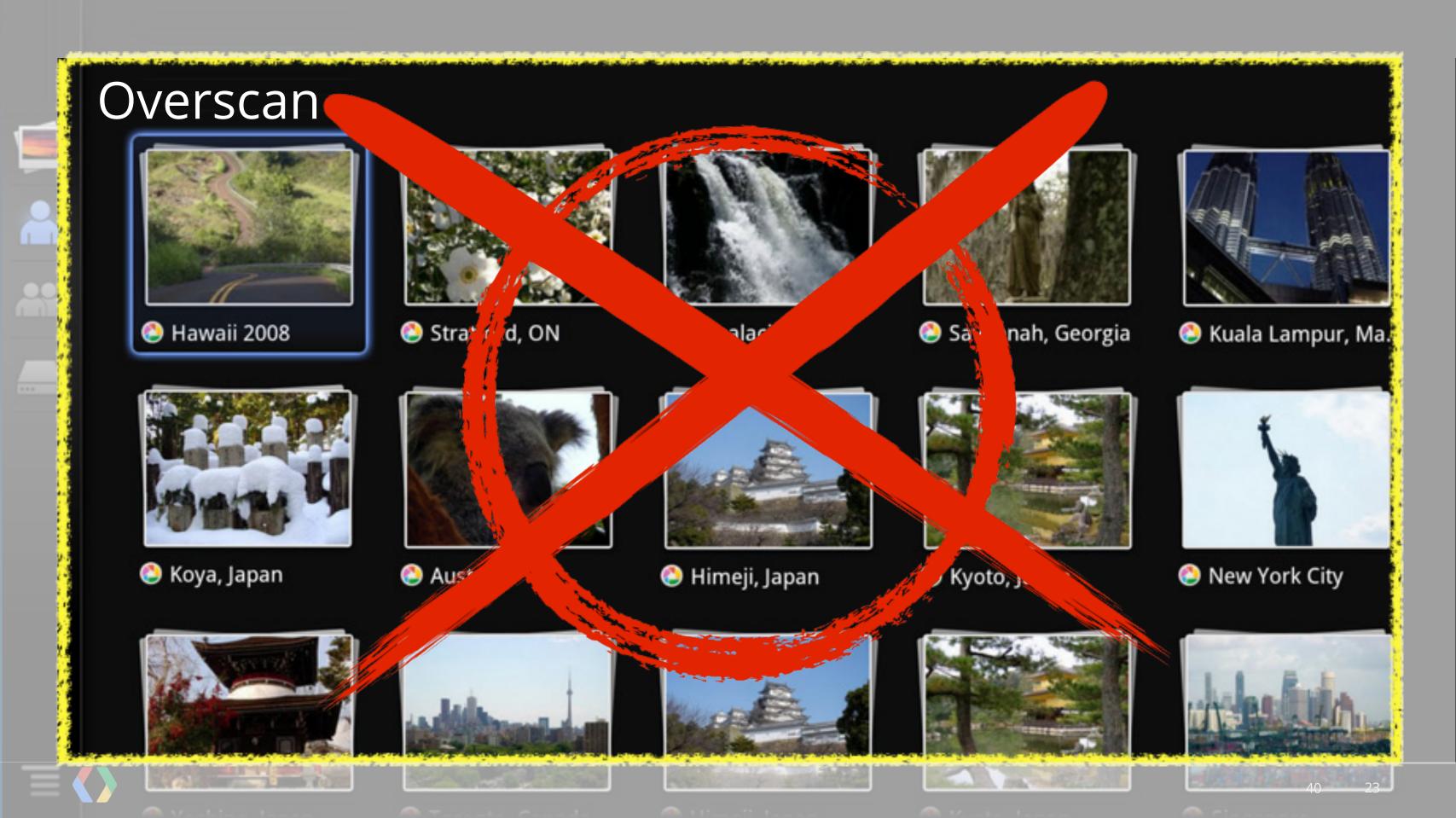




Tube TV's weren't perfectly rectangular...



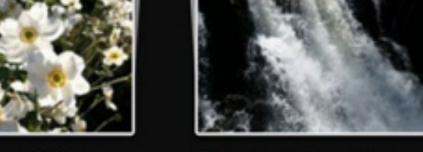




Top-left justify, use flexible layouts











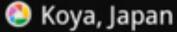
Stratford, ON

Appalacia 2008

Savannah, Georgia

🙆 Kuala Lampur, Ma.!







Australia



Himeji, Japan



Kyoto, Japan



New York City











To 1080p or NOT to 1080p?

	LDPI (Low Density) ~120 DPI	MDPI (Medium) ~160 DPI	HDPI (High Density) ~240 DPI	XHDPI (Extra High) ~320 DPI
Small Screen	QVGA (240x320)			
Normal Screen	WQVGA400 (240x400) WQVGA432 (240x432)	HVGA (320x480) HTC-GI	WVGA800 (480×800) WVGA854 (480×854)	
Large Screen		WVGA800* (480×800) WVGA854* (480×854)	TV 720p (1280x720) 213 DPI (TVDPI)	TV 1080p (1920x1080) 320 DPI
Extra Large Screen		WXGA (1280x800) Xoom Tablet		



Layouts – Basic Zone Pattern

 $\mathbf{0}$ \mathbf{R}







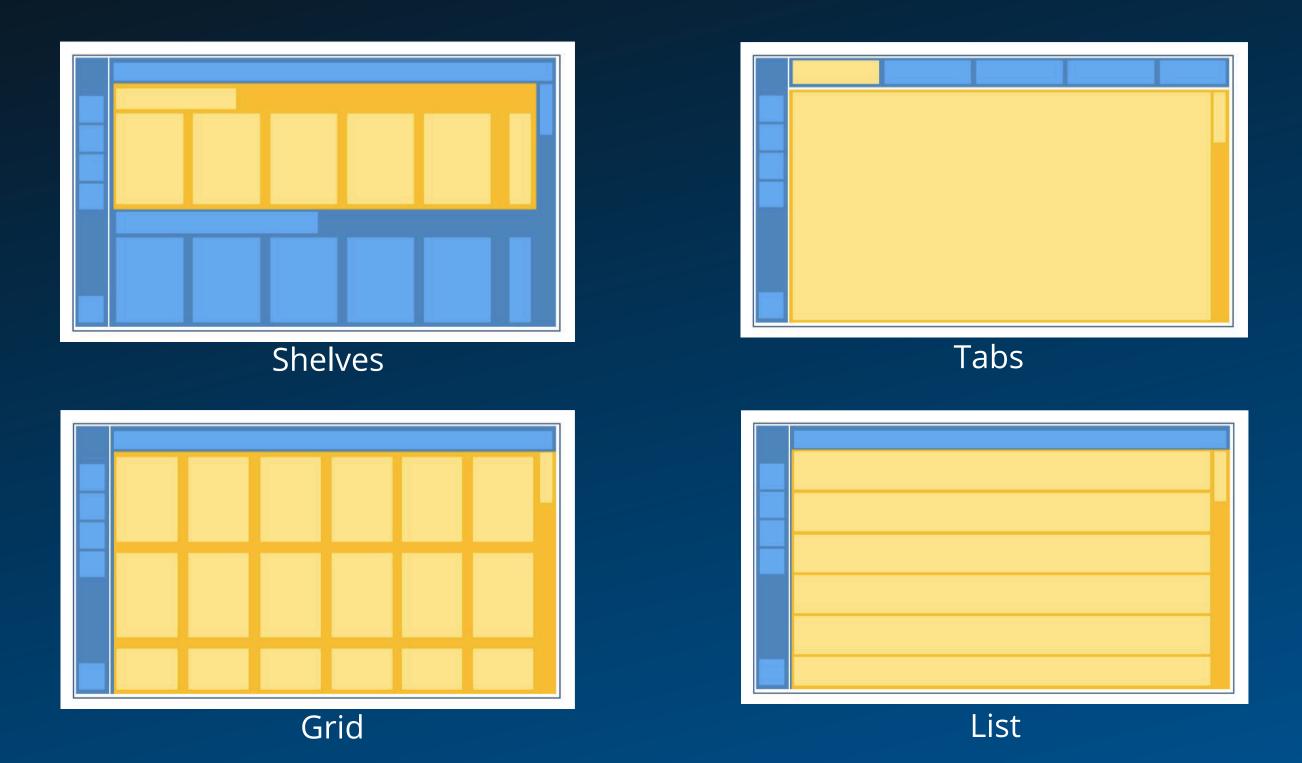
Crime Drama | 1972 Director: I. M. Director

global

contextual

content

Layouts – Common TV Patterns









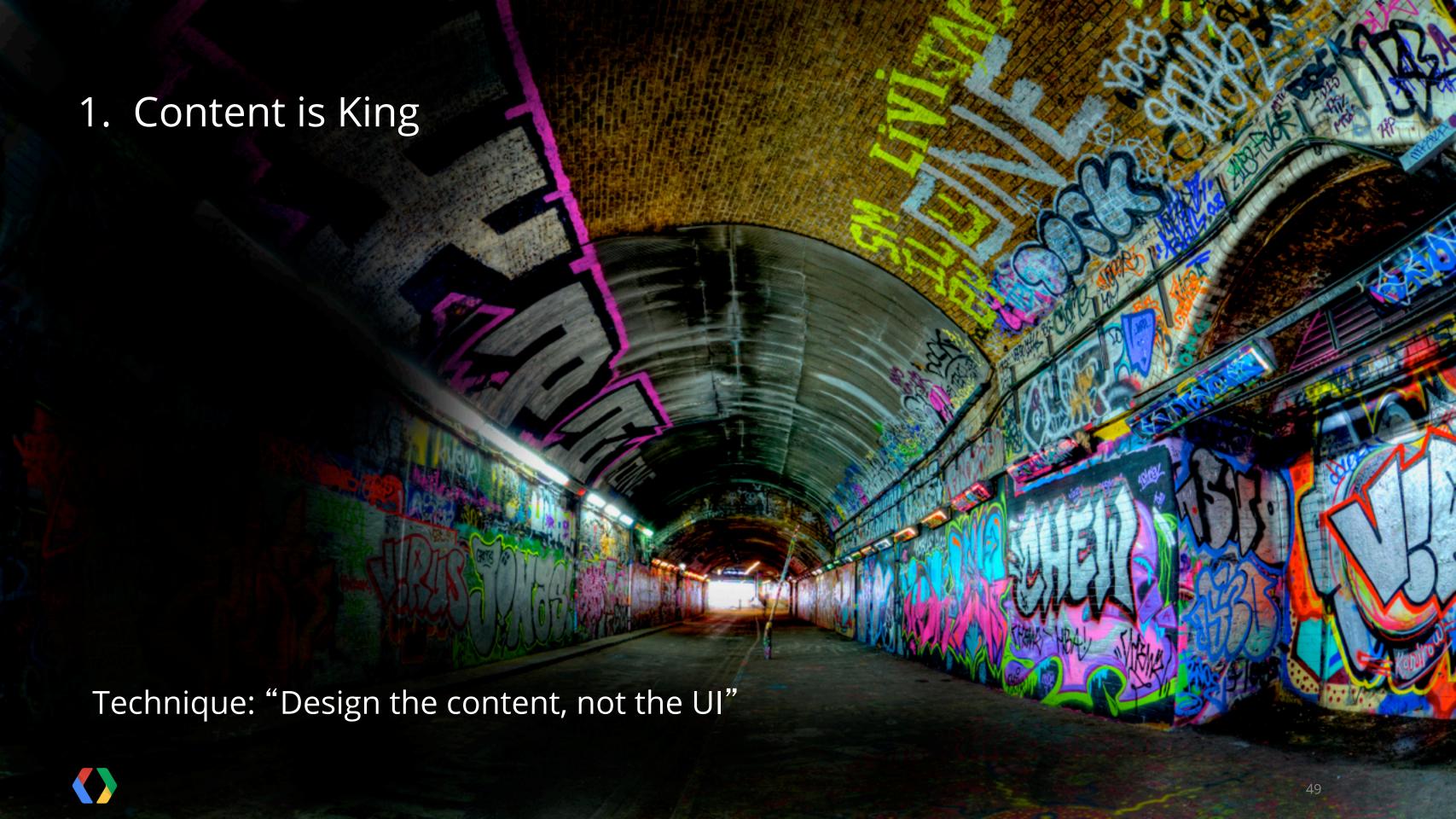
If ONLY there were a recipe book for GREAT EXPERIENCES...

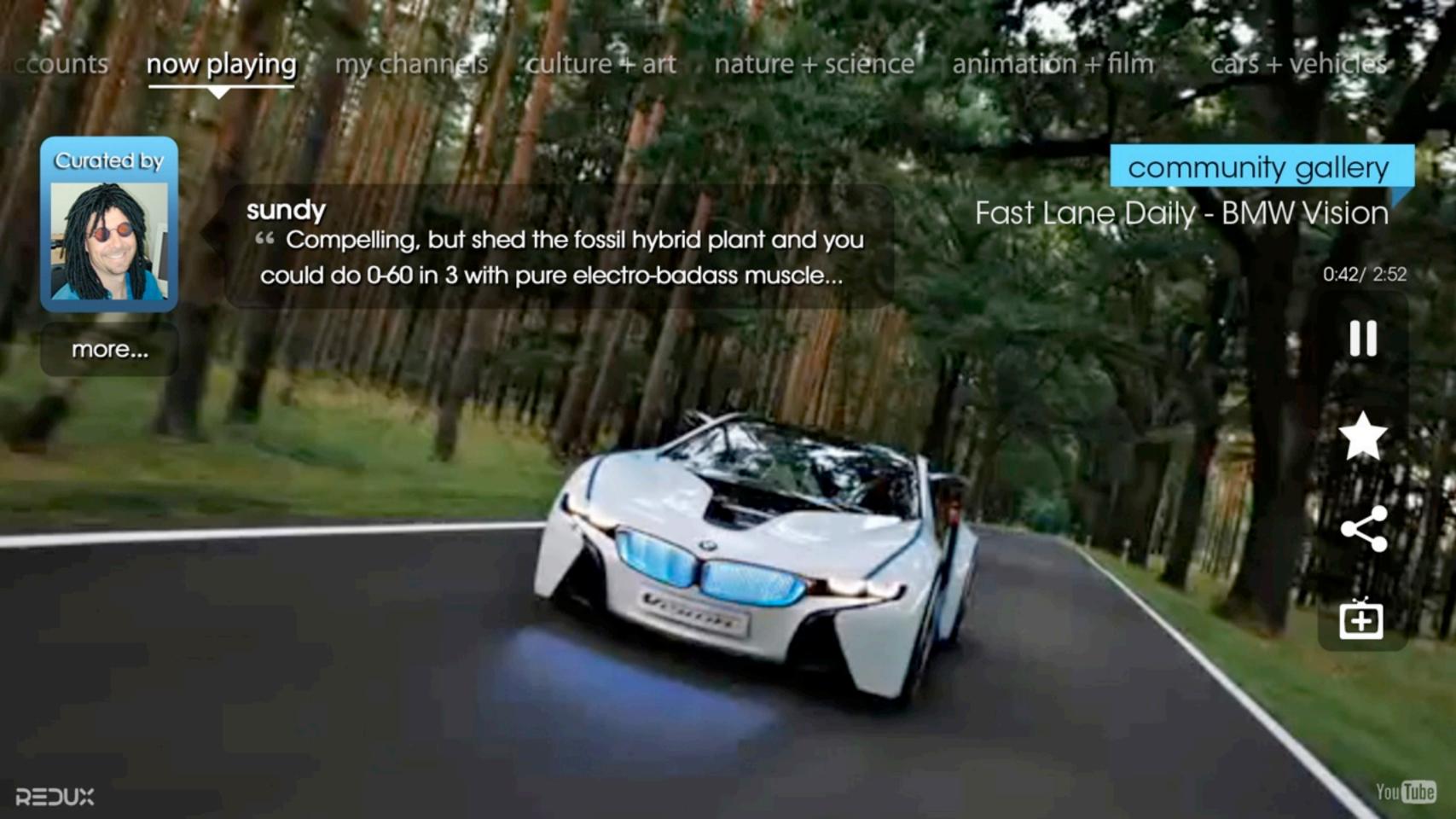




Turn the pages for yummy RECIPES AND UITIPS from the Geniuses at EXPERIENCE-R-US!

get recipes >





2. Less is More

Technique: "Focus on the 80%"









BEFORE...

7:44 PM













Time: On Now



Family Guy North by North Qua 16 mins left



Quality: All

Seinfeld The Little Kicks 16 mins left



The Office Broke 16 mins left

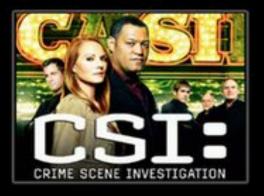


Curb Your Enthum The Safe House 16 mins left



Funny or Die Pre

DRAMA



CSI: Crime Scen Slaves of Las Vegas



True Blood I'm Alive and on Fire



Bones
The Witch in the Wa



Without a Trace Closure



Adventure Time













2:33 рм



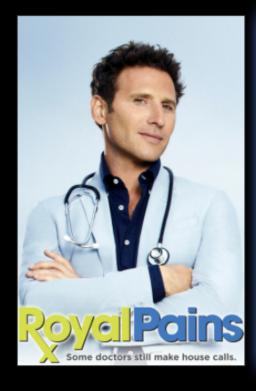


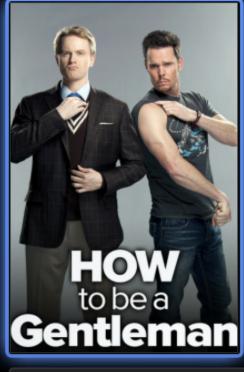


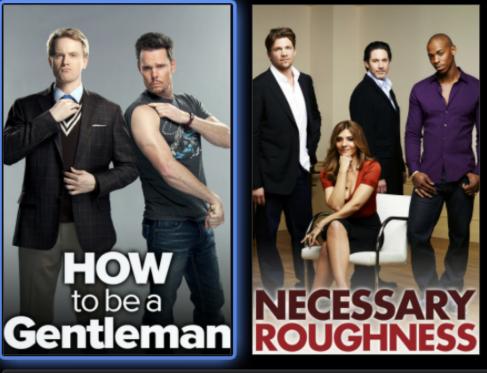


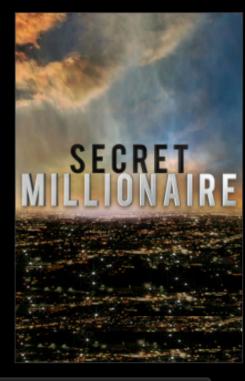
Housewives



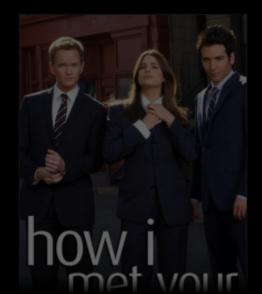






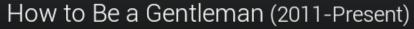












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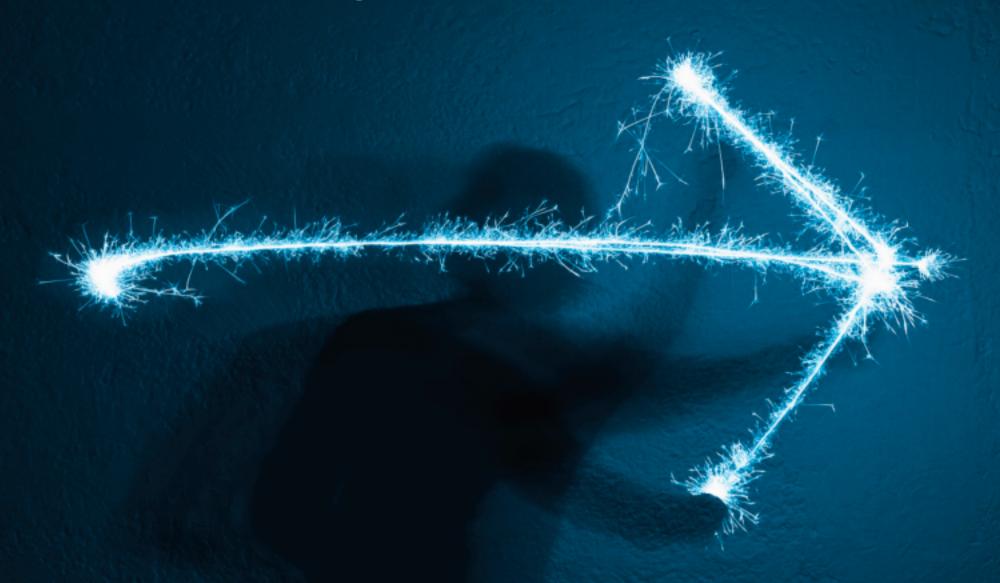








3. Movement has Meaning



Technique: "use physicality to create a mental model of where things 'live' and 'go'



Recommendations For You See More >













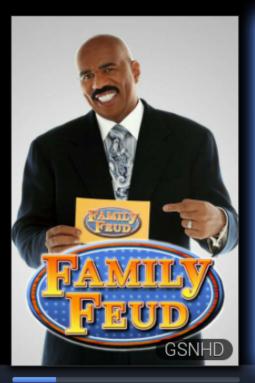
Favorite Channels













Movies on TV





















Boxed Tricks

Hologram Of The Anti Zombie



Clues With A Vengeance Fellowship Roots

Nothing But You Loyal Of The Important Feelings Love You

fortune of the Decent

ove you











1. Content is King

"design the content, not the ui"





3. Movement has Meaning "use physicality to create a mental model"



4. Make it Personal

"the 10th experience should be better than the first"



5. Suprise and Delight

"jewel in the warehouse"



6. Create an Experience, not a UI

"look through the windshield"



designers. they're not just for decoration.



<Thank You!>



The design guidelines referenced in this talk can be found here: http://goo.gl/NZwU6

oa@google.com
sundy@google.com



sony's google TV all access party

Tonight, Thursday June 28th. 7:30pm

Terra Gallery

511 Harrison Street (at First Street) San Francisco, CA 94105

Bring your Google I/O badge for admission.



Free

Sony Internet Player with Google TV to the first 500 people.





