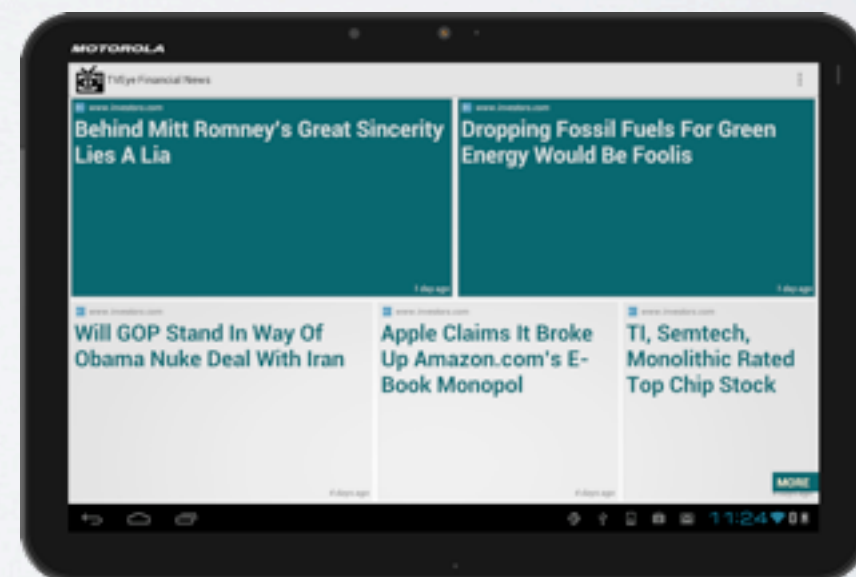


TVEYE FINANCIAL NEWS

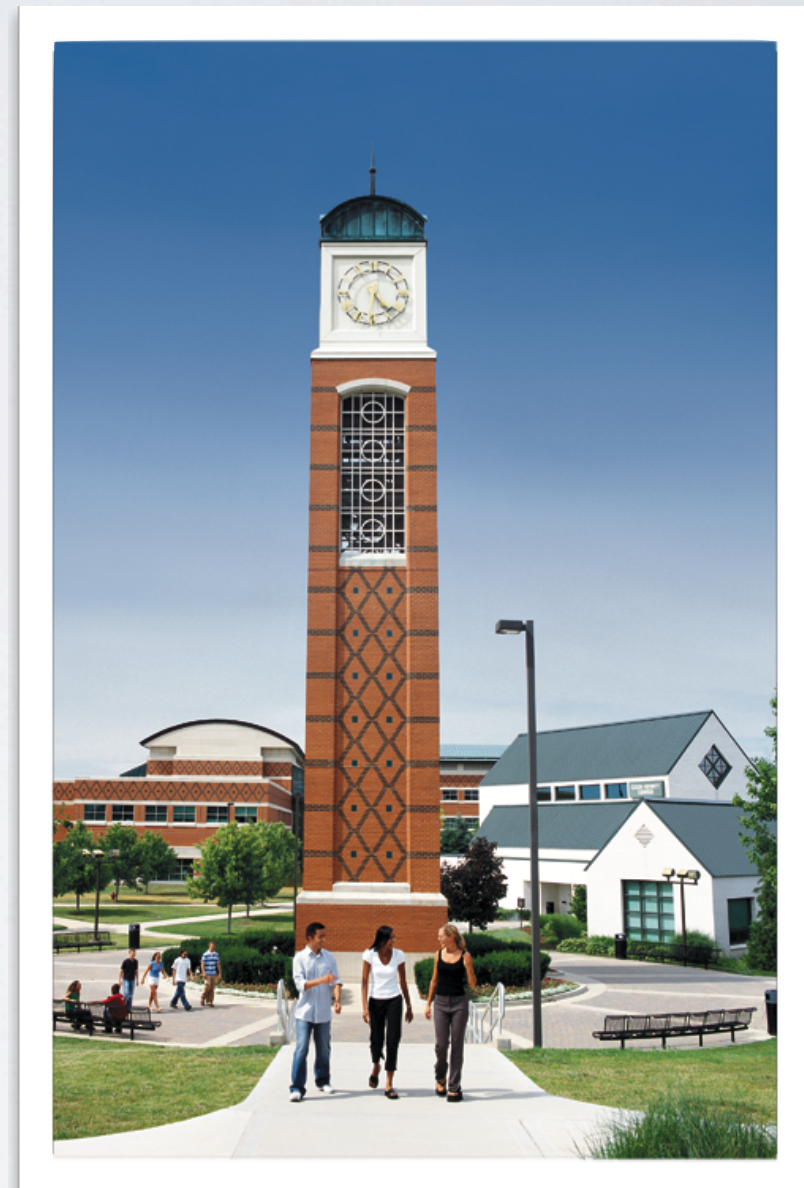
Grand Valley State University
CIS467 Senior Capstone Project

Nathan Bowman, Erin Carrier, Cory Hagerman, Greg Zavitz



GVSU QUICK FACTS

- Established 1960
- 1,985 Faculty and Staff
- ~25,000 Students
- 78 Undergrad Programs
- 29 Graduate Programs



PADNOS COLLEGE OF ENGINEERING & COMPUTING



- PCEC consists of:
 - School of Computing
 - School of Engineering
- 1530 students total
- Undergraduate and Graduate degree programs.

INTERNSHIPS / CAPSTONES

- Internships
 - Required by all CS & IS Majors / Minimum 16 hours weekly
- Senior Capstone Project
 - Required by all CS & IS Majors.
 - Teams of students work on projects sponsored by external corporations.



WHO WE ARE



Nathan Bowman



Erin Carrier



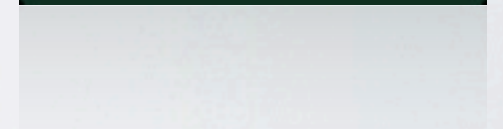
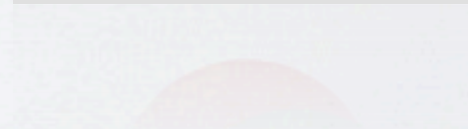
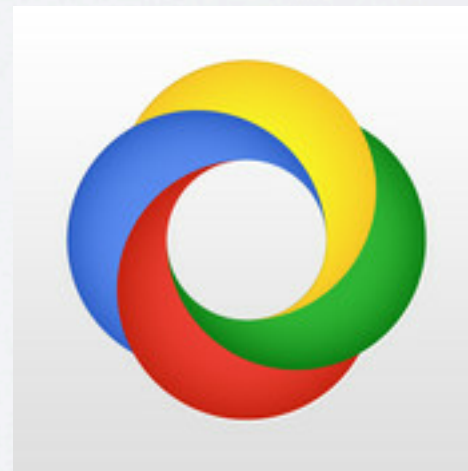
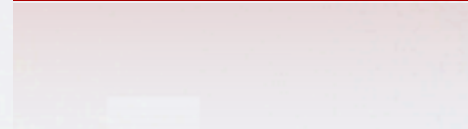
Cory Hagerman



Greg Zavitz

THE PROJECT

- Android tablet application to accompany financial TV
- Magazine style news reader
- Assist back-end in learning user interest preferences

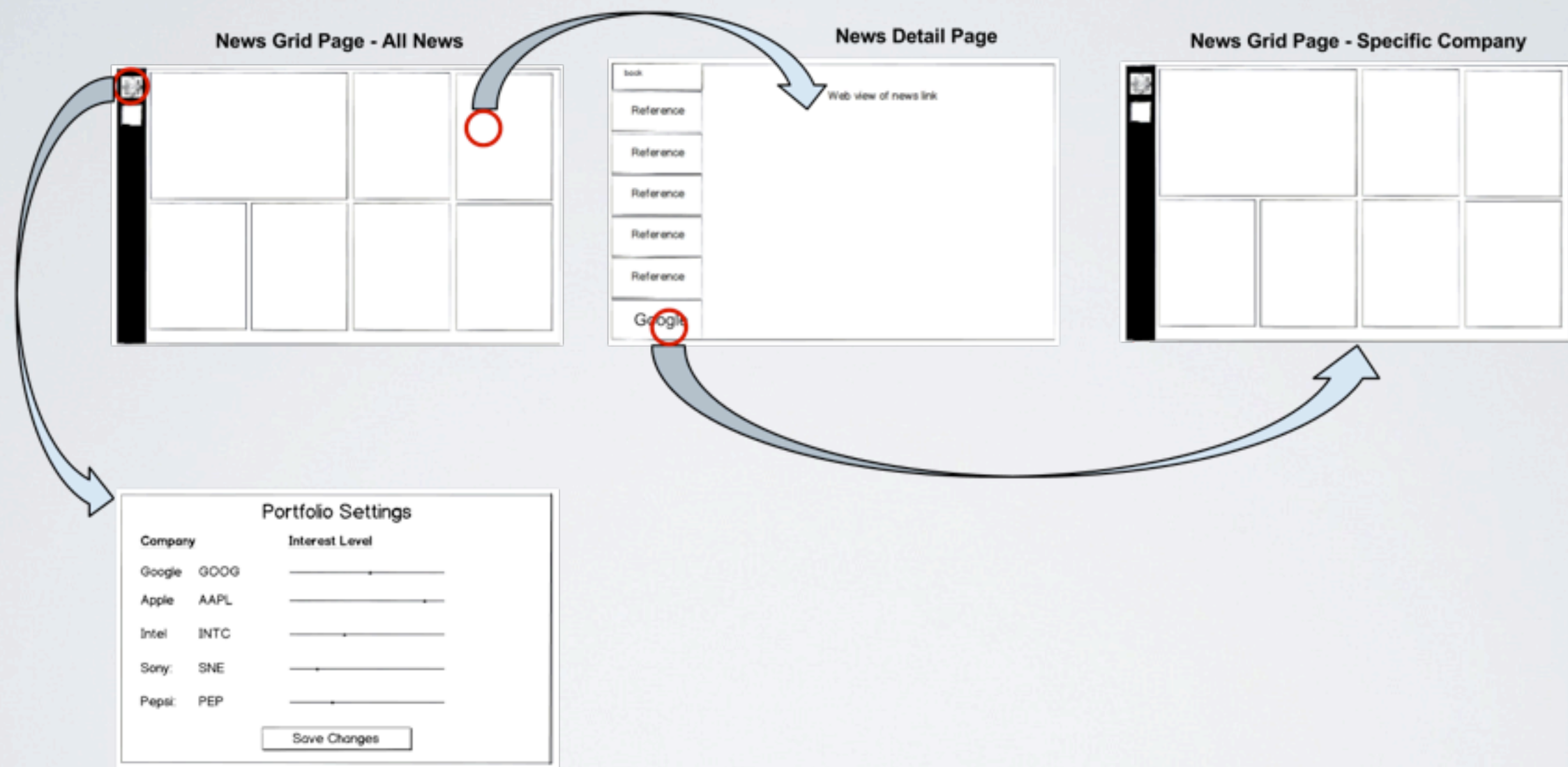


FIRST STEPS WITH ANDROID

- Learning the basic fundamentals of Android
- Initial impressions of Android development
 - Using the available documentation
 - Availability of relevant code samples



DESIGNING THE APP



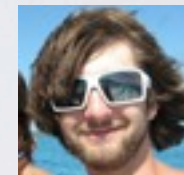
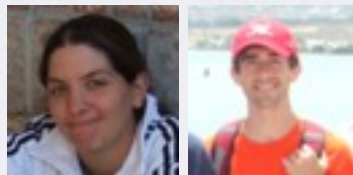
- Application layouts and flow using myBalsamiq

ITS ALL ABOUT TEAM WORK

News Grid

News Article

Settings



TVEye

- Activity modularity made it easy to assign tasks
- Distributed source control made conflicts minimal

APPLICATION DRILL-DOWN



Overall tablet application design inspired by the web application version of TVEye

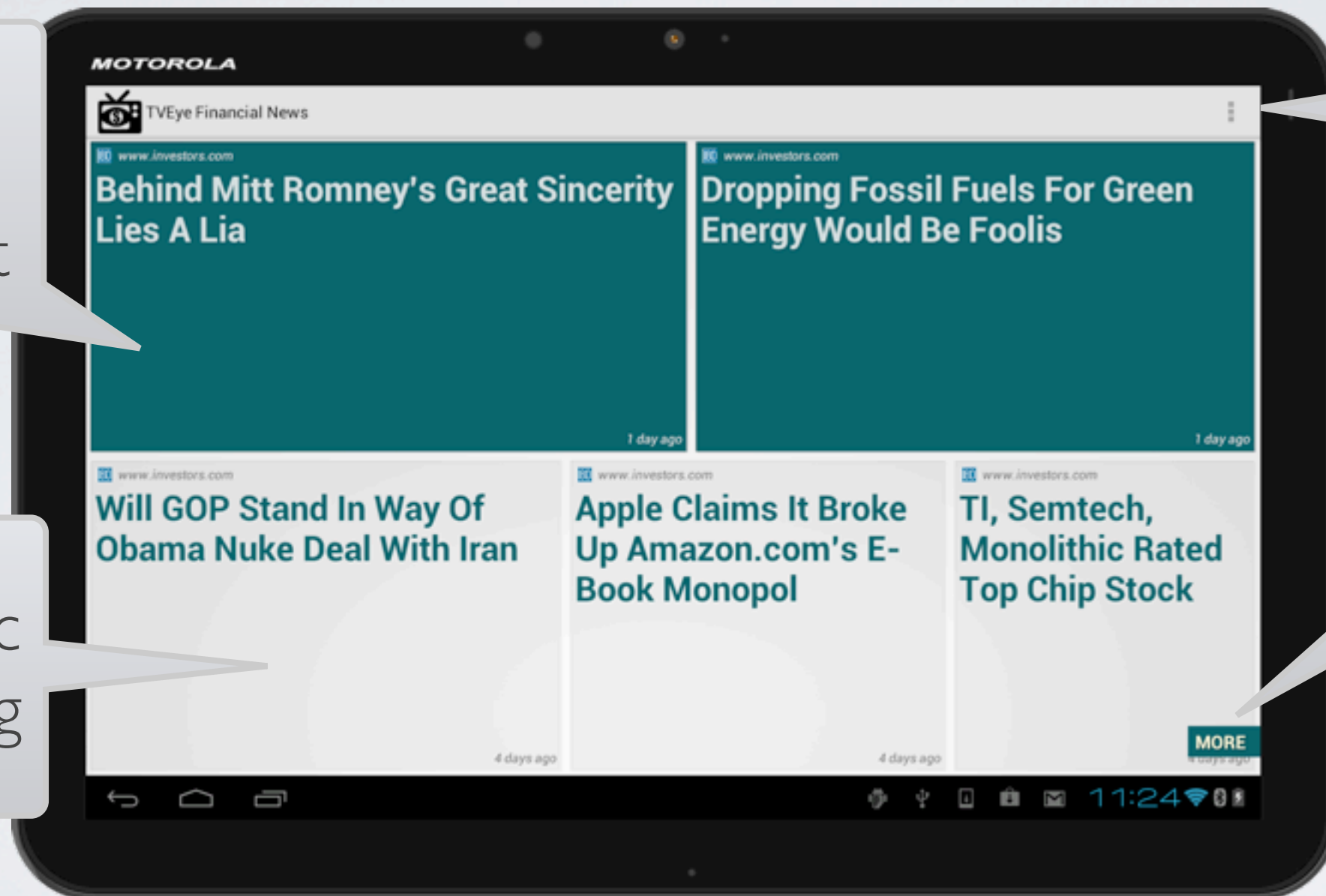
APPLICATION DRILL-DOWN

High
interest
highlight

Additional
settings

Dynamic
tile sizing

More
articles



APPLICATION DRILL-DOWN

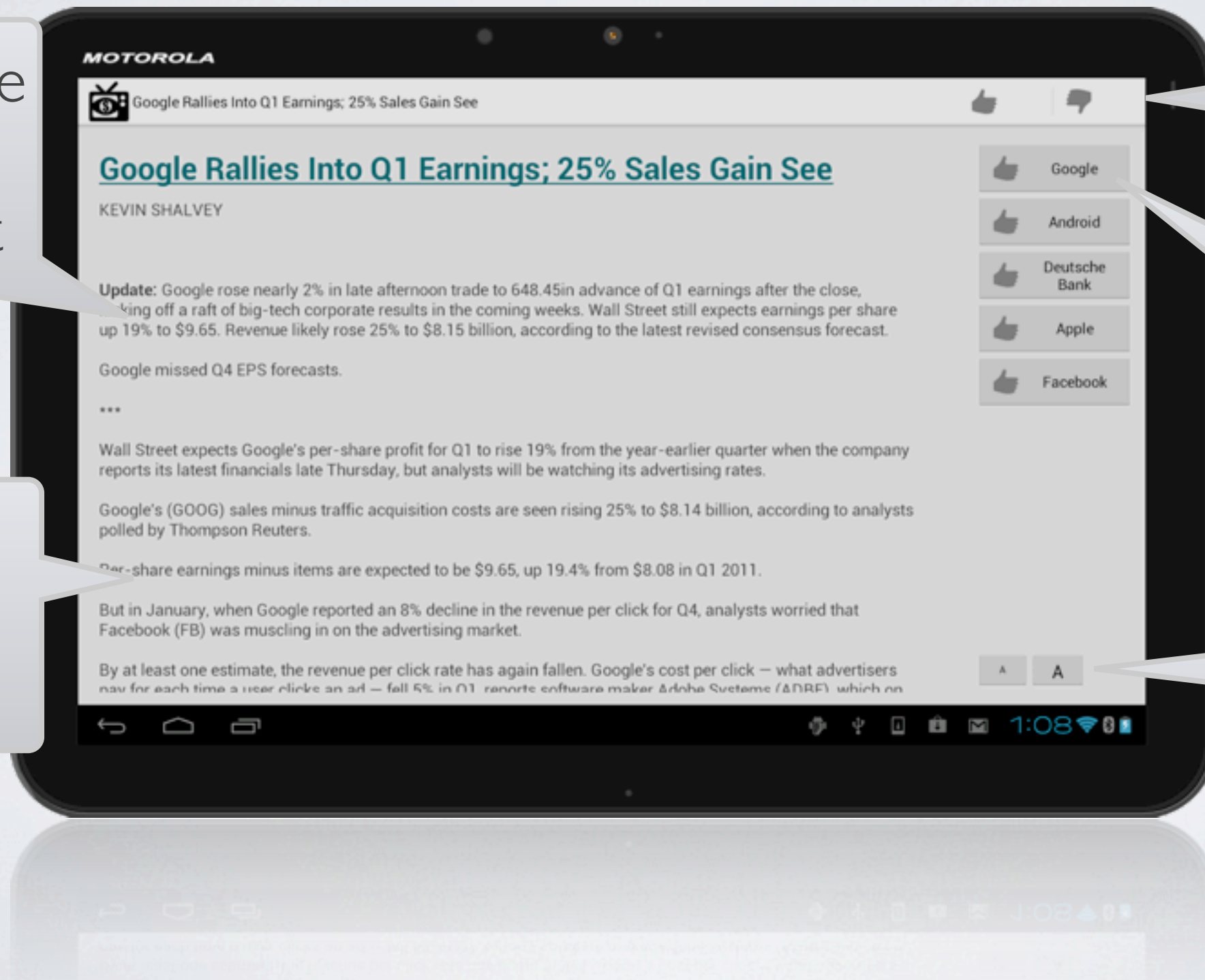
Scrollable
article
content

Explicit
Interest

Individual
explicit
interest

Implicit
Interest

Font size
changing



CHALLENGES

- Constantly changing design
- Working with an evolving API
- Determining the best techniques for learning user preferences



POSSIBLE EXPANSIONS

- Integrating with TV program identification
- More learning techniques, less user interface design



THANK YOU!

