

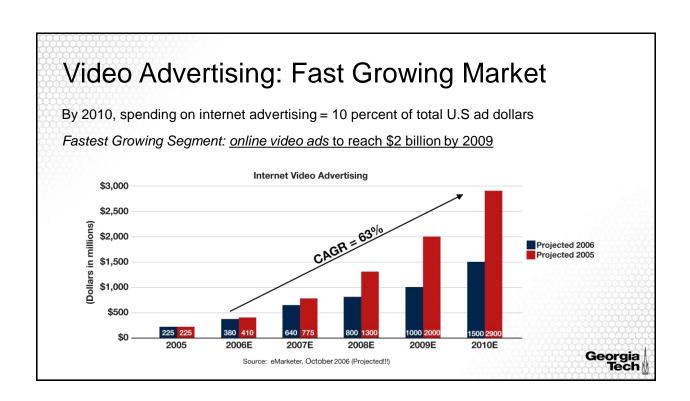
Marketing and Advertising

In this series of 3 modules, we look into data analysis in marketing and advertising

Outline of Marketing Modules

- · Traditional Advertising & Marketing
- · Evolution of Advertising Companies
- Overview of Systems of Digital Advertising
- Overview of Digital Advertising Market
 - Display Advertising
 - Search Engine Marketing
 - Social Media Advertising
 - · Mobile Advertising & Messaging
- · Building Campaigns and Media Buying
- Optimizing Media Campaigns

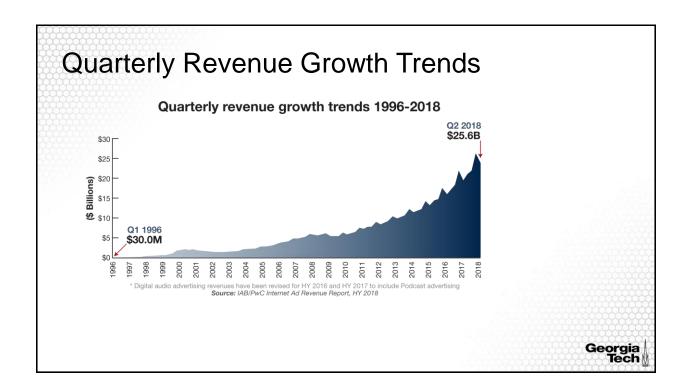
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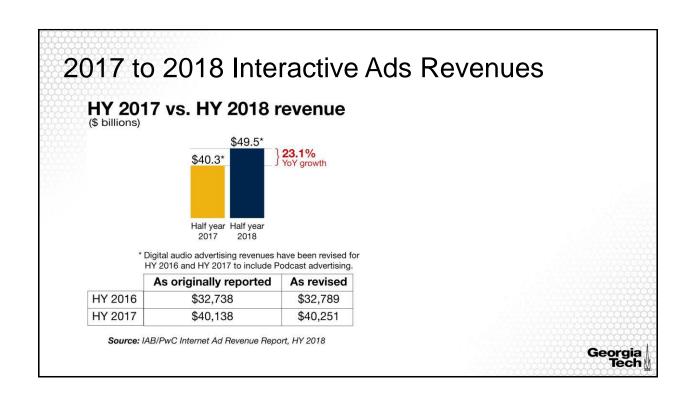


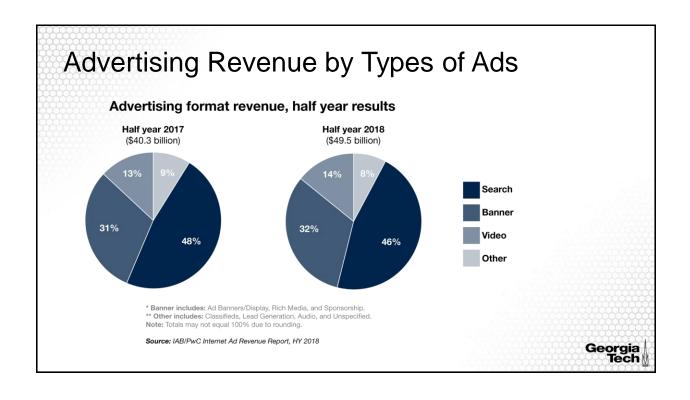
Overview of Digital Adverting Market

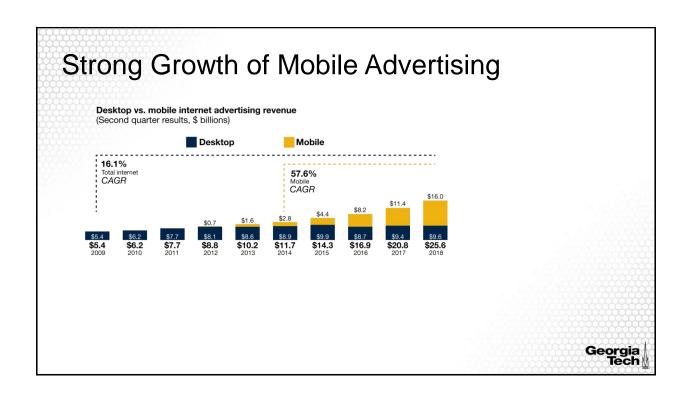
- Information from Internet Advertising Bureau
- www.iab.com/insights
- Internet Advertising Revenue Report for 2018 conducted by PriceWaterhouse Coopers (PWC)

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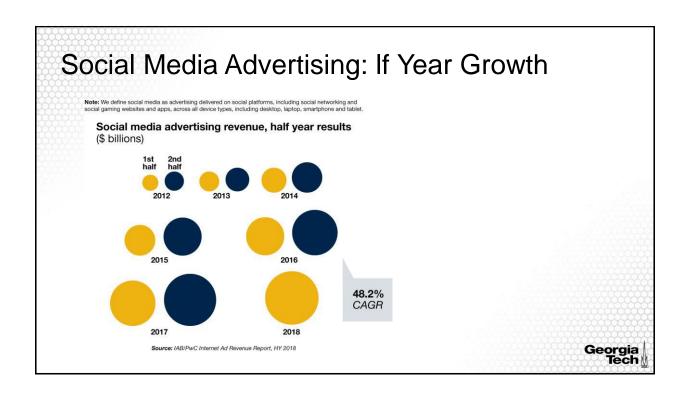




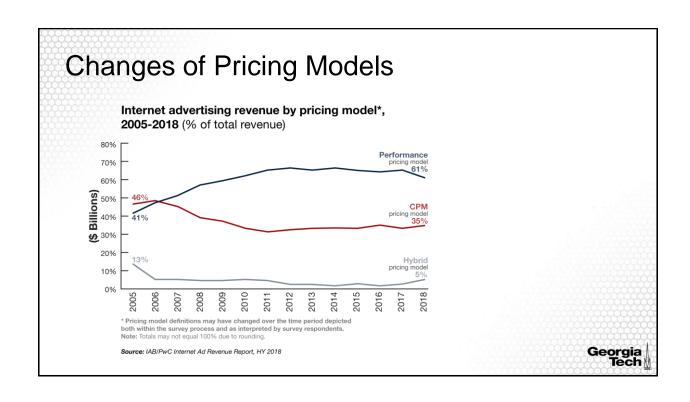




SDAQ: GOOG	la constant		
uarterly Financials	Sep 2018	Y/Y	
Revenue	33.74B	21.49% ↑	
Net Income	9.19B	36.54% ↑	
Diluted EPS	13.06	36.47% ↑	
Net Profit Margin	27.24%	12.38% †	
Operating income	8.31B	6.78% ↑	
Net change in cash	-705M		
Cash on hand	13.44B	27.05% ↑	
Cost of revenue	14.28B	28.1% ↑	



ASDAQ: FB uarterly Financials	Dec 2018	Y/Y	
evenue	16.91B	30.39% ↑	
et Income	6.88B	61.21% ↑	
iluted EPS	2.38B	64.14% ↑	
let Profit Margin	40.69%	23.64% ↑	
perating income	7.82B	6.37% ↑	
let change in cash	380M	56.72% ↓	
ash on hand	10.02B	24.01% ↑	
ost of revenue	2.8B	73.56% ↑	



Highlights of the 2018 IAB Report **Executive summary:** Revenues increase 23.1% from HY 2017 3 Half year growth: Year-to-date revenues continue to show strong growth Agility, commerce, audio, Gen Z's, and digital video highlight this year's growth drivers Key growth drivers: 6 Quarterly growth: Revenues grew 22.9% between Q1 and Q2 2018 The first 6 months reach \$49.5b 10 Revenue concentration Top 10 companies command 76% of the market Half year 2018 results: Search still leads all formats at 46.1% 12 Q2 2018 results: Video climbs to a 13.6% share of overall revenues Digital video (desktop vs. mobile): Mobile digital video revenue hit \$4.2b Social media: \$13.1b of digital ad revenue attributable to social Digital audio: Total digital audio ad revenues \$1b Pricing models: Hybrid shoots up to \$4.6 of total ad revenues Georgia

What Comes Next?

Today privacy and trust are viewed as compromised esp. in social networks

Big New Opportunity?

- Read: Time Magazine article on social media & Facebook: 28 Jan 2019
- Watch: "The Great Hack" on Netflix (about Cambridge Analytica)

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