



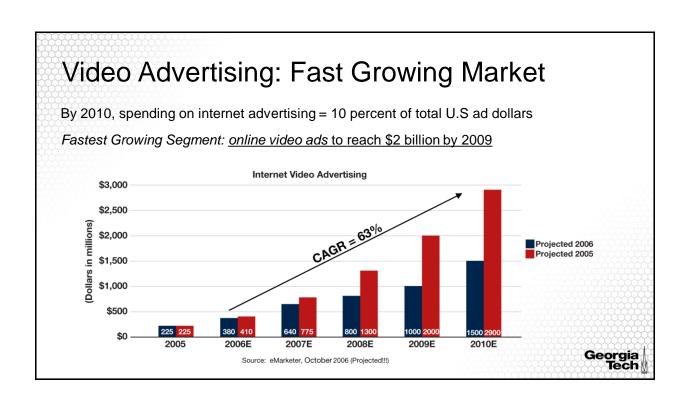
Marketing and Advertising

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

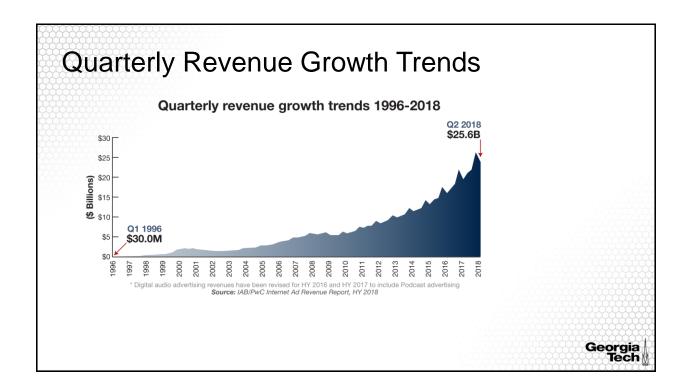
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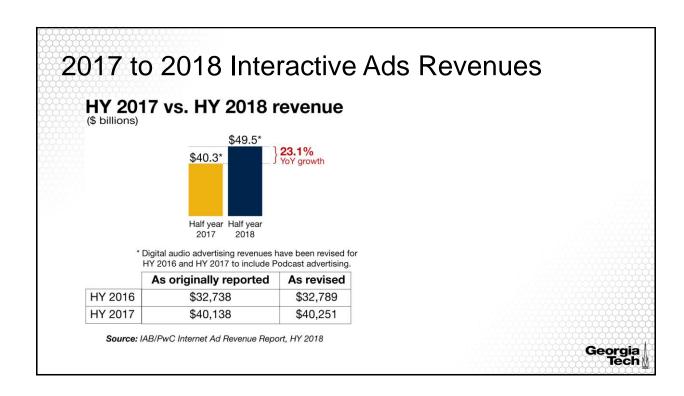


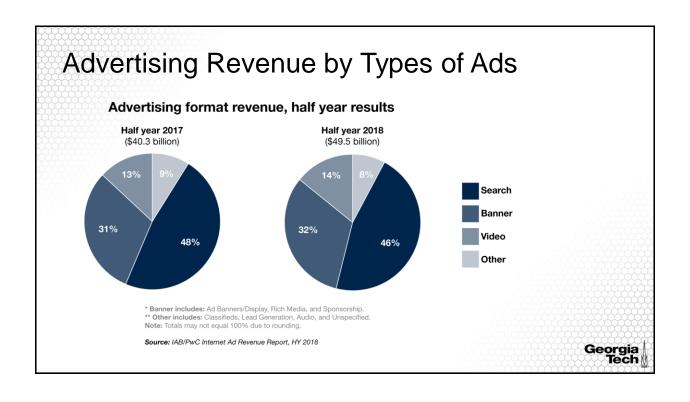
Overview of Digital Adverting Market

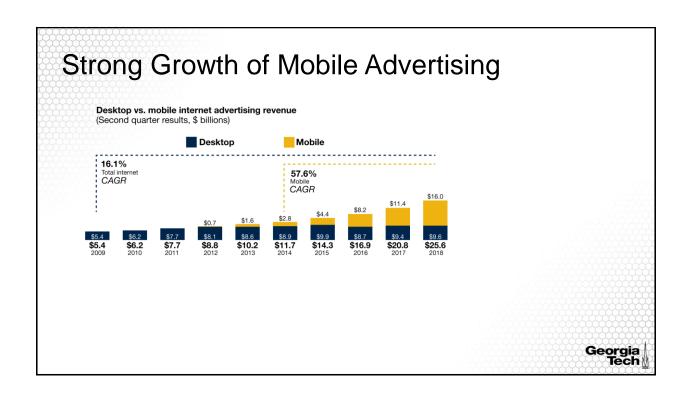
- Information from Internet Advertising Bureau
- www.iab.com/insights
- Internet Advertising Revenue Report for 2018 conducted by PriceWaterhouse Coopers (PWC)

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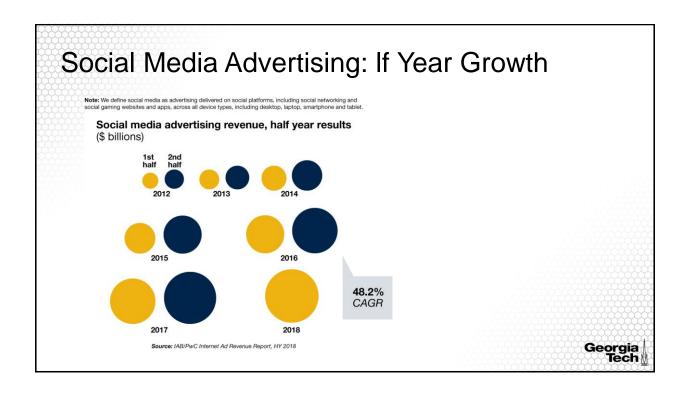




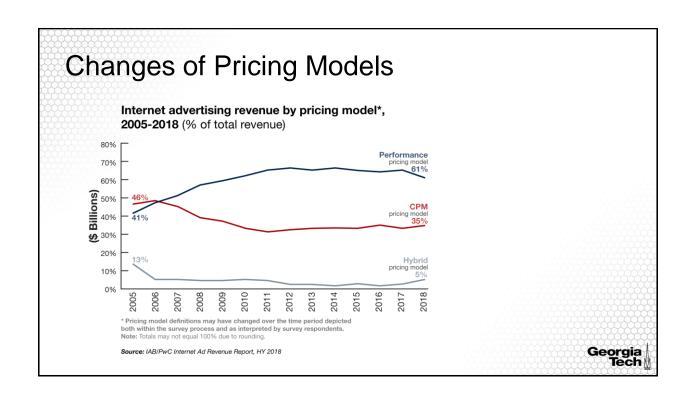


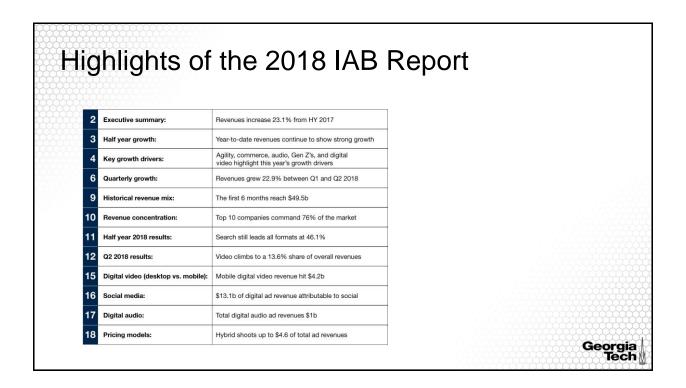


ASDAQ: GOOG uarterly Financials	Sep 2018	Y/Y		
Revenue	33.74B	21.49% ↑		
Net Income	9.19B	36.54% ↑	-	
Diluted EPS	13.06	36.47% ↑		
Net Profit Margin	27.24%	12.38% ↑		
Operating income	8.31B	6.78% ↑		
Net change in cash	-705M			
Cash on hand	13.44B	27.05% ↑		
Cost of revenue	14.28B	28.1% ↑		



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





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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