

#### Defining the Relevant Product Market

- *S* = {defendant's product}
- Repeat
  - Consider a price increase by a
  - hypothetical monopolist over *S* – Identify demand and supply responses
  - Add substitutes to S
  - *until* no more substitutes are found
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# Demand-Side Substitutes • Functional interchangeability • User purposes (i.e., end uses) • Reasonable interchangeability • Competitive variables



- A relevant product market can be defined around a captive end use segment
- Cellophane? Probably not. Arbitrage defeats price discrimination
- Software? Possibly. DRM can prevent arbitrage

### Quality-Adjusted Price Discrimination Markets An end use segment is captive if a hypothetical monopolist could discriminate against it by reducing quality with respect to that end use alone.

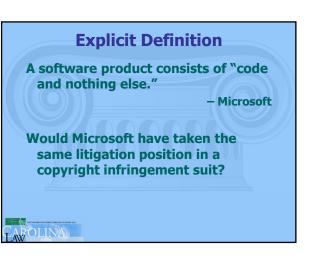
#### **Product Definitions**

• Explicit

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- D.C. Circuit demands findings "defining what a browser is"
- Abstract
  - Judicial administrability
  - Avoid false distinctions
  - Avoid manipulation
- Specific
  - D.C. Circuit requires "detailed findings"
  - Address relevant factual inquiries
  - Obviate reliance on misleading intuitions

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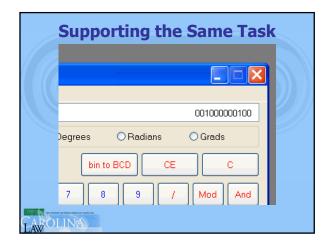


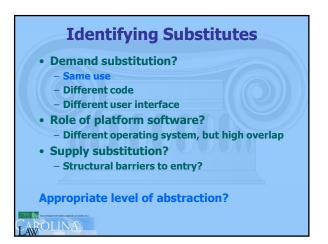


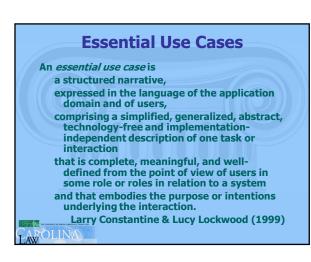


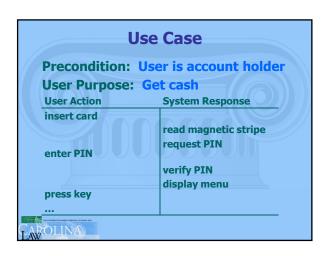


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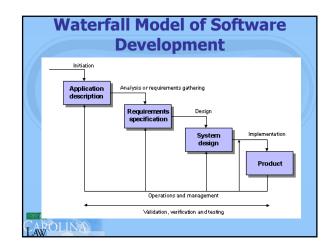




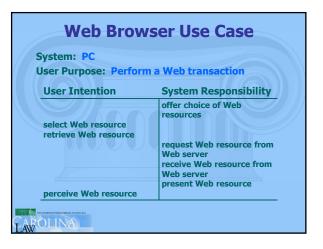




System: User is a	account holder
Jser Purpose: G	et cash
User Intention	System Responsibility
identify self	verify identity offer choices
choose	
take cash	dispense cash











#### Microsoft's Web Browser Software Product

- Implicit (Felten): That which allows a Windows 98 user to browse the Web.
- Explicit: The legal right (or immunity) and technological capability to make copies and adaptations of the Windows 98 code (on hard disk, in RAM) for the purpose of performing Web transactions.
- Market for Web browsing functionality

   Felten shows end use of Windows 98 for Web browsing is a captive segment (i.e., a relevant product market)

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# "Integration" Are Microsoft's OS and Web browser software products "integrated"? Not by operation of the consent decree standard: Felten shows that there is no plausible benefit to joint provision

## "Integration"

Are Microsoft's OS and Web browser software products "integrated"? Not by definition:

• They are accompanied by the same software code, but they do not consist of this code

#### "Integration" Are Microsoft's OS and Web browser software products "integrated"? Not by operation of copyright law: • They consist of separate and distinct legal rights • Distinguishable rights, even though derived from the same copyrighted code

#### "Integration"

#### Are Microsoft's OS and Web browser software products "integrated"? Not by operation of copyright law:

- § 102(b) limits copyright exclusivity to "expressions," not "ideas"
  - Altai: no exclusivity over program elements where the "freedom of design choice" is "circumscribed by extrinsic considerations"

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#### "Integration"

Are Microsoft's OS and Web browser software products "integrated"?

- Not by operation of copyright law:
- § 117 immunizes the "owner of a copy" of software from copyright liability for making adaptations as necessary to use the software for the purpose "for which it was both sold and purchased."

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#### "Integration"

Are Microsoft's OS and Web browser software products "integrated"? Not by operation of technology:

 Felten shows that they consist of separate and distinct technological capabilities

#### 

# "New Product" Does "seamless browsing" create a new product? New product only if functionalities have merged into a new user purpose (essential use case) Here, user purposes are still distinct, but are implemented by the same (similar) user interface – Retrieval problem

#### Web Browser

#### **Competitive Variables in FOF**

- Minimize search and communication costs
- Avoid harmful Web resources
- Assess costs, risks and benefits of Web transactions in advance
- "[T]here is no indication that Microsoft is destined to provide a 'best of breed' Web browser that makes continuing, competitively driven innovations unproductive."

FOF 197-98