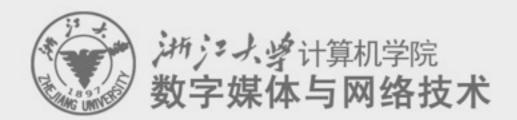


Digital Asset Management 数字媒体资源管理



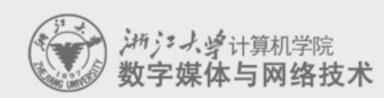
任课老师: 张宏鑫

2015-09-15

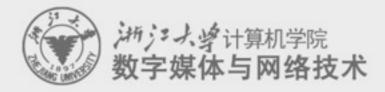


l. Introduction l. 导论

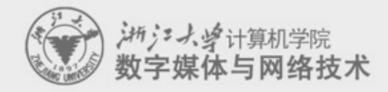




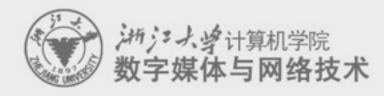
Content management

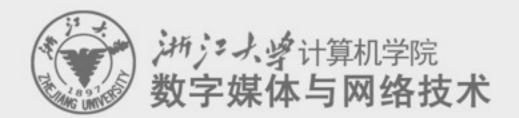


- Content management
- Industrial Analysis



- Content management
- Industrial Analysis
- Case Study





I.I. Content management





Content

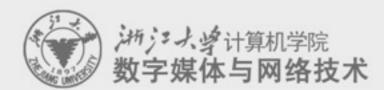
Content

Information

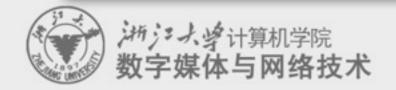


Data



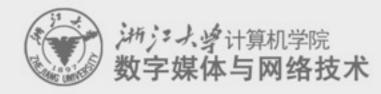


- Information
 - creation, representation and exchanging
- Information media (信息载体,石刻,竹简, 羊皮纸,雕塑,建筑 ...)
 - collection, organization and storage
- 古老的行业

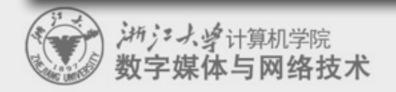


- Examples:
 - Ancient years: Literature in Libraries and Archives (档案馆)
 - From I 9th century: Continuous Media (连续媒体), movie, audio ...

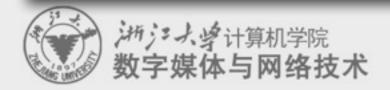
• After I 980's: Digital Media (数字媒体), digitalized



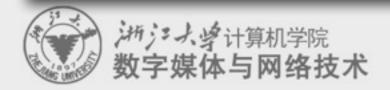
process, store and transfer (data) content



- process, store and transfer (data) content
- Key: non-linear creation



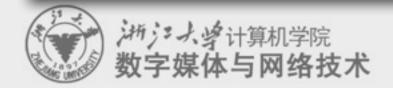
- process, store and transfer (data) content
- Key: non-linear creation



- process, store and transfer (data) content
- Key: non-linear creation

Media industry:

fusion between traditional company (news paper, broad casting, entertainment) and modern company (google, sina, apple, facebook)



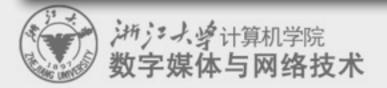
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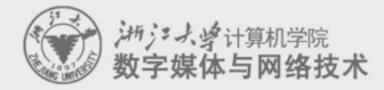
Non-Media industry:

data and documents in big companies, education units, research units, museums



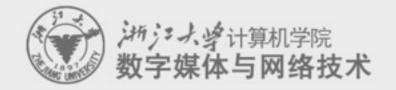
信息的银行?

- 保险柜?
- 交易平台?
- • ?

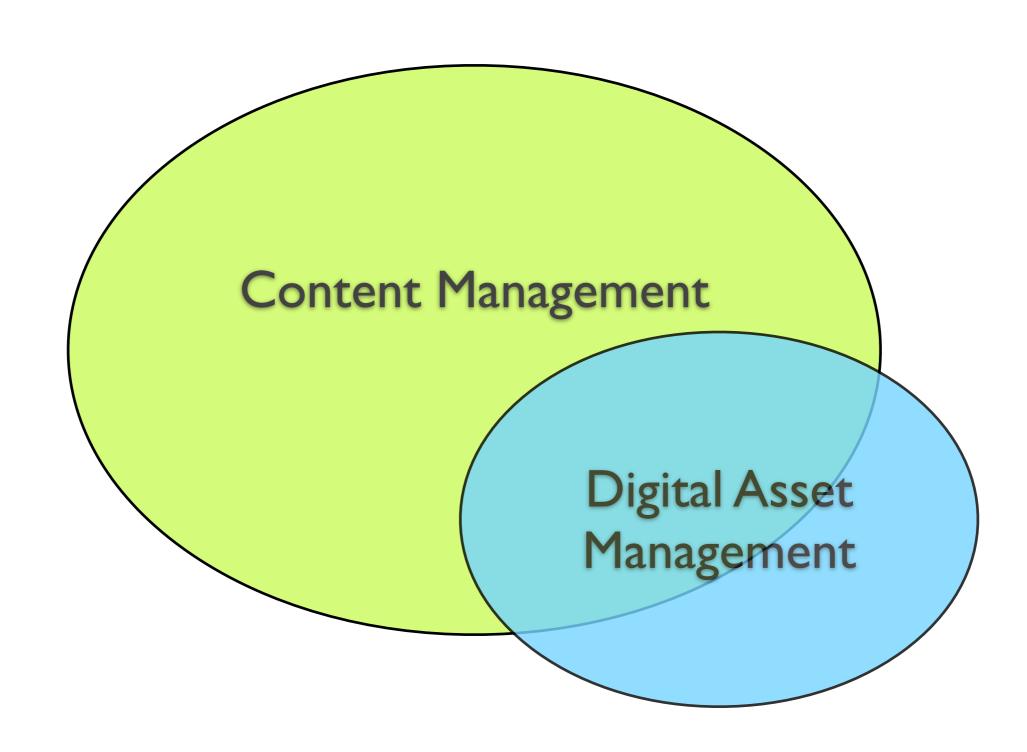


Typical CMS

- Website of a research unit
- Personal blog
- Wiki

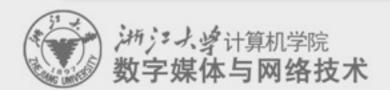


Digital Asset Management



What is Digital Asset Management?

- Tools for organizing, storing and retrieving content in digital format
 - downloading, renaming, backing up, rating, grouping, archiving, optimizing, maintaining, thinning, and exporting ...
- Includes:
 - text, video, images, movies, sound, and 3D content

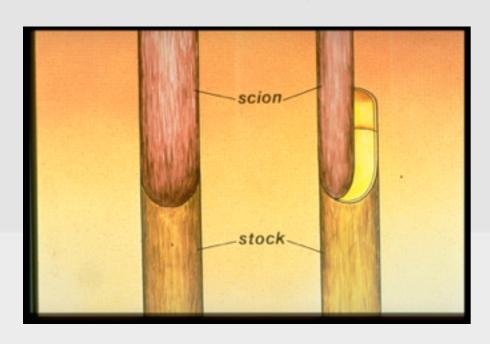


Content Management and DAM

- "It's just another binary file type" is a superficial response
 - But so is, "It's just managing brand assets"
 - Digital Asset Management involves
 - Much higher **storage volumes**
 - More complex **Ownership** and **usage rights**
 - More complex content (layers)
 - However, an organization needs a unified content management/digital asset management strategy to avoid unnecessary costs in hardware, licensing, software development and support

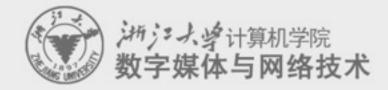
Examples of Digital Media (Asset)

Illustrations



Photographs





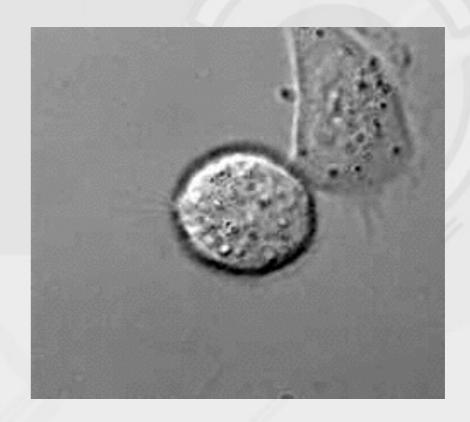
More Digital Media (Asset)

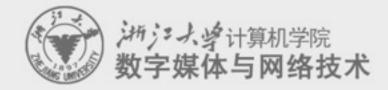
Sound

Animation



Movies





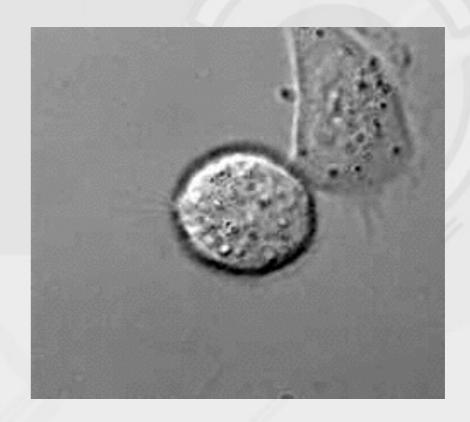
More Digital Media (Asset)

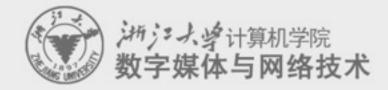
Sound

Animation



Movies





Document

Hypermedia document

Technique by which advertitious roots are caused to form on a stem while it is still attached to the parent plant. It is then detached to become a new plant.

Eactors affecting layering

1. Nutrition - still connected to purent plant. In some respects is similar to girdling - get accumulation of CHO etc at point of bending.

Stress avoidance - Is not detached from parent plant. Better water relations. Less leaf semescence and leaching on plants that take long time to noot.

3. Light exclusion - similar to blandsing in tip layering. Is etiolation in trench layering.

State, becoming the compared this way naturally such as rasphenies, blackberries.

Plants which are delinced to propagate other ways - such as outlings but which are valuable enough to do this since it is a labor-intensive method. Mangos -air layering.

filberts -simple layering, muscadine grapes - compound layering.

3. For producing a large sized plant in a relatively short time. For many foliage plants.

4. For production when there are minimum propagation facilities.

Types of laparing



Elp layering - In late summer starts to happen naturally. Tip changes appearance. Elongated with small curved loaves. Bury this and shoot tip recurves upward to a produce a sharp bend in stem from which.



Text

Nutrient Media

Nutrient Media

Nutrient media for plant tissue culture are designed to enable explants to grow in a totally artificial certifonment. In order to enable plants to grow in vitro, scientists have deviced moriant media that provide the notifiest soundly available in soil. In addition to mineral elements which make up the macro- and microantificate present in fertilities, notifiest media also contain organic compounds such as vitamins, plant growth republices, and a carbon source.

One of the most successful media, devised by Murashige and Sknog (Murashige and Sknog, 1962) was formulated by analyzing the inorganic components in otherco-plants and then adding them to media, in amounts similar to those found in the plants. Not only did they find that the ions themselves were important, but the form it which the ions were supplied were critical as well.

Macroelements consist of N.K.P.Ca.Mg. and S.

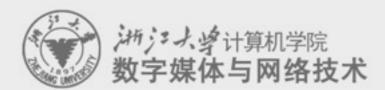
Nitrogen (N) - Nitrogen is required for general growth and is exceeded to plant life. Must incognise introgen is converted to amino acids and then to proteins. The two most widely used forms of integratic nitrogen used in plant nutrient media are the nitrate ion (NOO-oxidized) and the ammonstum into (NO4-oxidized) and the ammonstum into (NO4-oxidized) and the concentrations between 25 and 40 µM and ammonism between 2 and 20 µM. In proofly buffered useds, use of between 25 and 40 µM and ammonism between 2 and 20 µM. In proofly buffered useds, use of between 25 is not lineare, in devicing media, both the total amount of nitrogen as well as the stative amounts of NO3- and NI4+ are important. When the ammonism ion is used since it may be toxic. Integrate, integrate protectally surgest force 25-60 mM in nativitient media. Nitrogen may also be added in an originite form as amino acids, bydeolysates (such as causin bydeolysate) and organic acids.

The organic notions of interiogn can be assumed as a second contract and contracted to incubate the next contain immunosium. One advantage of using organic nitrogen is that it is already reduced, the farm in which most nitrogen a wint in the plant and thus may be taken up more readily than incorganic nitrogen. Organic forems of nitrogen cannot, however, buttley replace inorganic forems. One danger of using immu acids is that here TOO MUCH can be added in which case feedback inhibition can occur. Buchemically the cylls stans that there is a great deal of a specific animo acid and consequently change the mentabelic pathways to stop the natural grootstories of the animo acid and consequently change the mentabelic pathways to stop the natural grootstories of the animo acid.

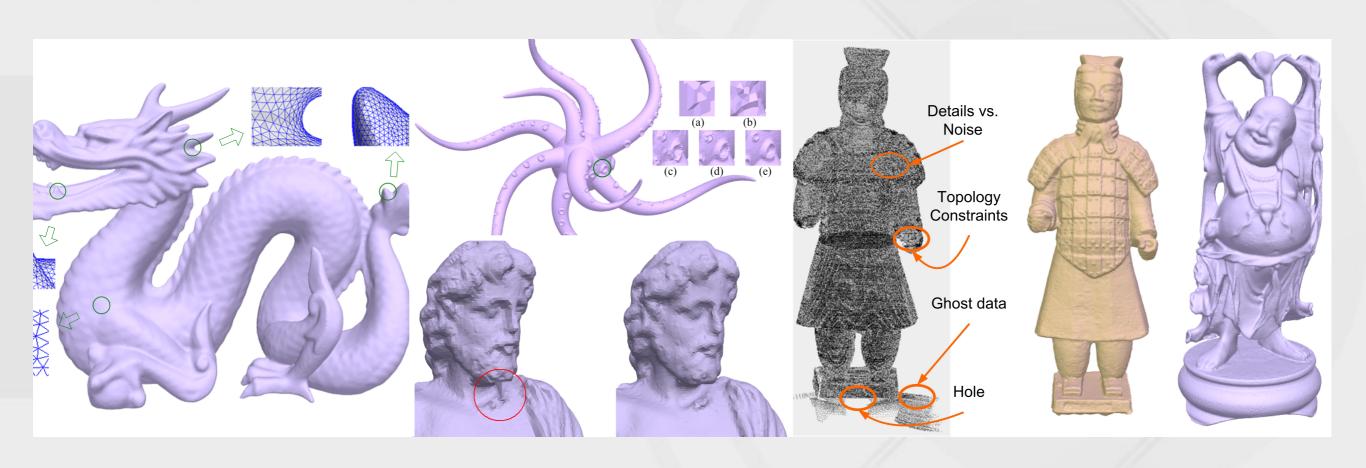
This results in the production (or backing up) or intermediate compounds which in turn may discont normal metabolics.

exidized and reduced forms. The two main forms of nitrogen used are ammonium NH_4^{-1} and nitrate NO₃. The form of nitrogen affects the pH.When both forms of N are used there is a rapid uptake of ammonium (the more readily available form since it is reduced) which results in a documen in gill to about 4. 4. At lower gill the uptake of nitute is performed and thus the gill since. Nitrate is used in addition to ammonium because the ammonium ion in excess is usually textic. Also gill would be much more difficult to control with just ammonium.

Plant Biology 159: Plant Torse Cultury



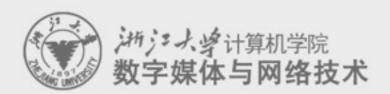
3D content



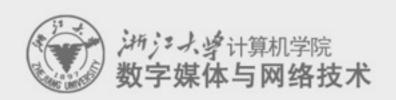
3D printer / scanner ... Kinect...

Content

- Essence (素材) + Metadata (元数据)
- Intellectual Property Rights (IPR,知识产权)
- Digital Right Management (DRM, 数字版权保护)

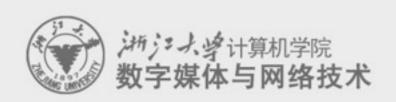






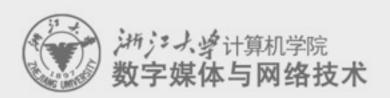


 Average creative person looks for a media file 83 times per week



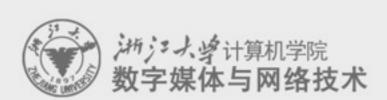


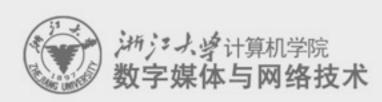
- Average creative person looks for a media file 83 times per week
- Fails to find it 35% of the time



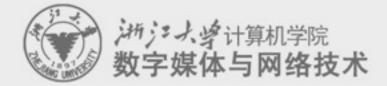


- Average creative person looks for a media file 83 times per week
- Fails to find it 35% of the time
- DAM reduces failure to 5%

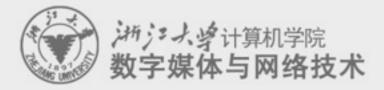




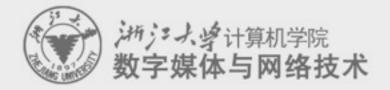
Catalog large numbers of formats



- Catalog large numbers of formats
- Create a visual category using thumbnails

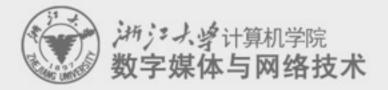


- Catalog large numbers of formats
- Create a visual category using thumbnails
- Add keywords, data fields



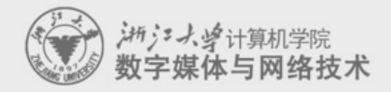
What Can DAM Do for You?

- Catalog large numbers of formats
- Create a visual category using thumbnails
- Add keywords, data fields
- All fields can be searched



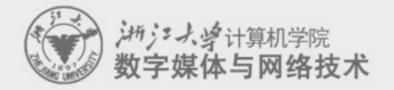
What Can DAM Do for You?

- Catalog large numbers of formats
- Create a visual category using thumbnails
- Add keywords, data fields
- All fields can be searched
- Select images for an electronic gallery specific lecture topics



What Can DAM Do for You?

- Catalog large numbers of formats
- Create a visual category using thumbnails
- Add keywords, data fields
- All fields can be searched
- Select images for an electronic gallery specific lecture topics
- Share over the internet



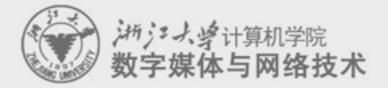
DAM Example: Picasa



Photo Management: Client Software + Web Service

Rules of sound DAM

- Systematize
- Don't rely on your memory
- Be comprehensive
- Build for the future
- Do it once...
- But don't overdo it



Browsers v.s. cataloging

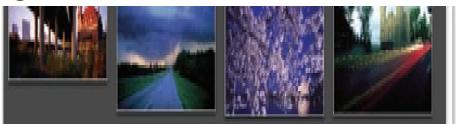




- DAM faster
- allows user to have virtual sets.
- knows where stuff is supposed to be.
- allows faster backup of important sorting work.
- allows you to work with offline images.



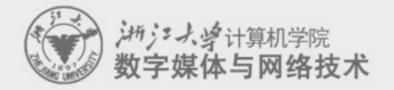


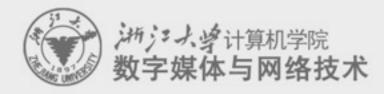


Browsers v.s. cataloging

- Browsers:
 - Photoshop Bridge

- Cataloging software
 - Google Picasa
 - ACDSee





From most extensive and expensive to least financially damaging

Enterprise solutions



- Enterprise solutions
 - \$35,000 + (can be in millions)



- Enterprise solutions
 - \$35,000 + (can be in millions)
- Middle tier interdepartmental



- Enterprise solutions
 - \$35,000 + (can be in millions)
- Middle tier interdepartmental
 - \$3,000 \$5,000 +



- Enterprise solutions
 - \$35,000 + (can be in millions)
- Middle tier interdepartmental
 - \$3,000 \$5,000 +
- Desktop level



- Enterprise solutions
 - \$35,000 + (can be in millions)
- Middle tier interdepartmental
 - \$3,000 \$5,000 +
- Desktop level
 - \$100-500 + (depending on server requirements)



- Enterprise solutions
 - \$35,000 + (can be in millions)
- Middle tier interdepartmental
 - \$3,000 \$5,000 +
- Desktop level
 - \$100-500 + (depending on server requirements)
- Future, SaaS (cloud) solution



- Enterprise solutions
 - \$35,000 + (can be in millions)
- Middle tier interdepartmental
 - \$3,000 \$5,000 +
- Desktop level
 - \$100-500 + (depending on server requirements)
- Future, SaaS (cloud) solution
 - free or very low price



Desktop Solutions

iView Media Pro

Experience the Pro difference. <u>iView MediaPro</u> is essential for creative professionals who need to organize, view, annotate, print, backup and repurpose media, as well as automate their workflow.



Download & Try

Mac OS X, OS 9, 8.6

Buy Now

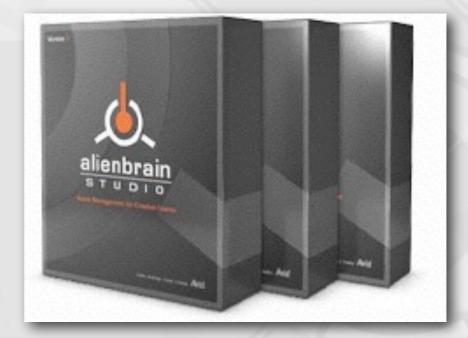
Take a Tour

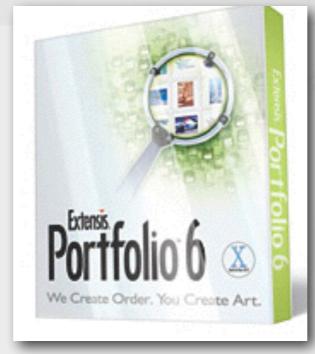
Features

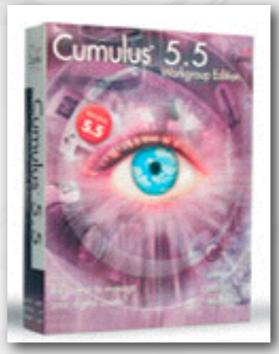
Ver. 1.5.7 \$90 (US)

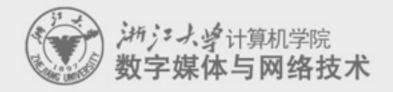


Register for release alert





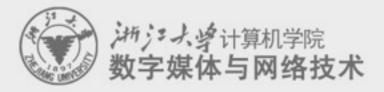




Desktop Solutions

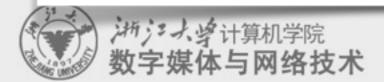
- Avid Technology Alienbrain
- Extensis Portfolio
- Canto Cumulus

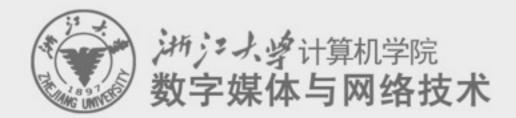
Each of these programs is easy to use. Demonstration copies are available on the web at www.alienbrain.com (Alienbrain) www.extensis.com (Portfolio) www.canto.com (Canto)



Open Source Solution

http://www.opensourcedigitalassetmanagement.org

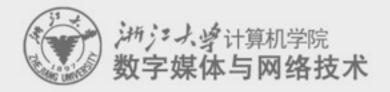




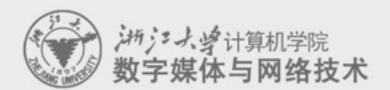
1.2. Industrial Analysis



- Digital Asset Management initially established Niche Markets, including
 - Publishing, Media and Entertainment
 - Broadcasting Media Asset Management
 - etc.



- Now on the Verge of Going Mainstream
 - Integration into
 - Enterprise Content Management and
 - Document Management Strategies
 - Cross Industry
 - Financial Services, Pharmaceuticals, Consumer Packaged Goods, etc.
 - Mainstream Vendors



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母婴育儿

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养生保健

抗衰老 | 旅游 | 菜谱 | 家居风水 | 中医养生

职场励志

成功法则 | 口才 | 心计 | 职场 | 人脉

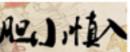


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成人之美

当我们如此键注"性"的时

淘宝读书

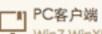
官方客户端



iPhone iPad iPod



Android





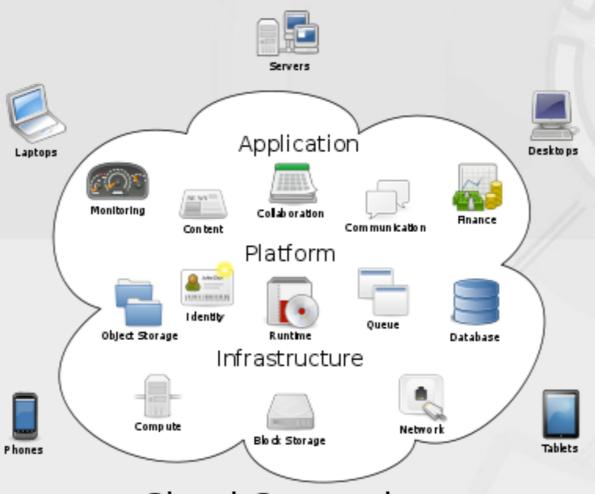
在线阅读

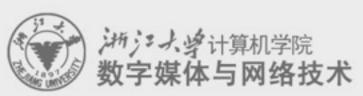
Flash Html5 Wap



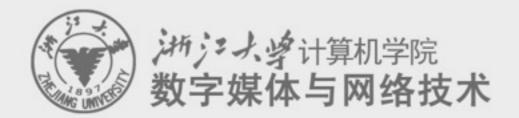
支付宝 可直接购买

DAM system is moving to





Cloud Computing



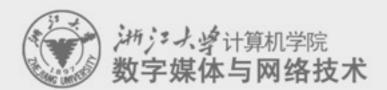
Digital Asset Management - Case Study



Case Study #1: Music Publishing



- Apple (iTunes)
- Leading music publishing firm
 - own millions song copyrights and supports 100 countries and territories
- Client needed a means to further maximize and manage the value of the song copyrights that it owns through promotion, licensing and royalty processing
- Client decided to turn all their internal processes and data outward, making them available to business partners and associates everywhere, at all time

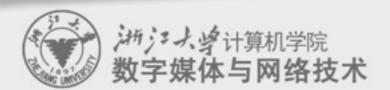


Case Study #1: Music Publishing



- Key technical aspect was integration of numerous IT systems including several territorial:
 - databases, search, application server/portal
 - not just simply a packaged DAM system deployment

 Outcome was the world's largest digital rights management (DRM) system

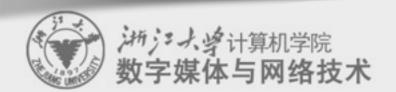


Case Study #1: Music Publishing



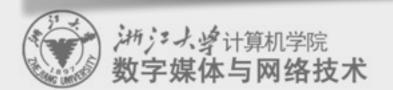
- Apple's iTunes (data 2011)
 - > 8,500,000,000 music sale
 - > 84,000,000 iPad
 - > 13,000,000 iPhone
 - > 350,000,000 iPod
 - > 400,000,000 iOS devices
 - > 435,000,000 iTunes users





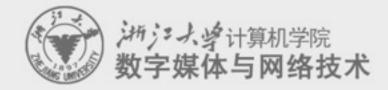
Case Study #2: Cable Television

- Leading cable television network: multiple premium channels/multiple multiplex channels
- Client needed more effective means to provide affiliates access to digital assets: marketing materials, programming information, ads, etc.
- Client also needed ability to request print materials and to order services (e-commerce transactional back-end integration)
- Client required a single 3rd party system integrator that could:
 - Span technologies: Digital Asset Management, Content Management,
 Application Server, Portal
 - Span core competencies: Creative Design, Back-end Integration, etc.
 - Take over where a previous 3rd party systems integrator left off



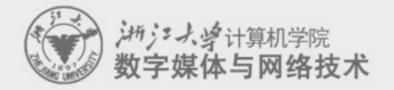
Case Study #2: Cable Television

- Google TV: Android based
- Apple TV? IOS based ...



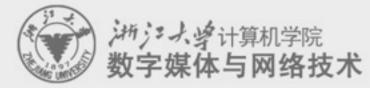
Case Study #3: A Digital Asset Management System at University of Michigan?

- •Create a robust infrastructure to ingest (获取), manage, store and publish digital rich-media (富媒体) assets and their associated metadata.
- •Streamline the "workflow" required to create new works with digital rich-media assets.
- •Build an environment where assets are easily searched, shared, edited and repurposed in the academic model.
- Provide a campus-wide platform for future application of rights declaration techniques (or other IP tools) to existing assets.



Orientation of DAMS at the UM

- Infrastructure level
- Tuned for rich media (time-based)
 - video
 - audio
 - 3D VR modeling and animation
- Capability for non time-based data (text, numerical data, still images)
- Metadata collection and management: automated or semi-automated
- Campus-wide availability
- Not primarily a content management tool nor production tool
- Coordinate with planned campus storage management practice
- Distributed management (authorization, roles, access lists)
- Integrated with centralized campus data services
- Plan for digital rights-declaration/management services



What is the place of DAMS in the campus infrastructure?

Publishing: Teaching, Collaboration, Production, Distribution, Broadcast

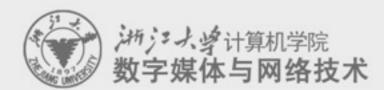
Institutional and Individual Assets

Applications, Course Management Systems, Production Systems

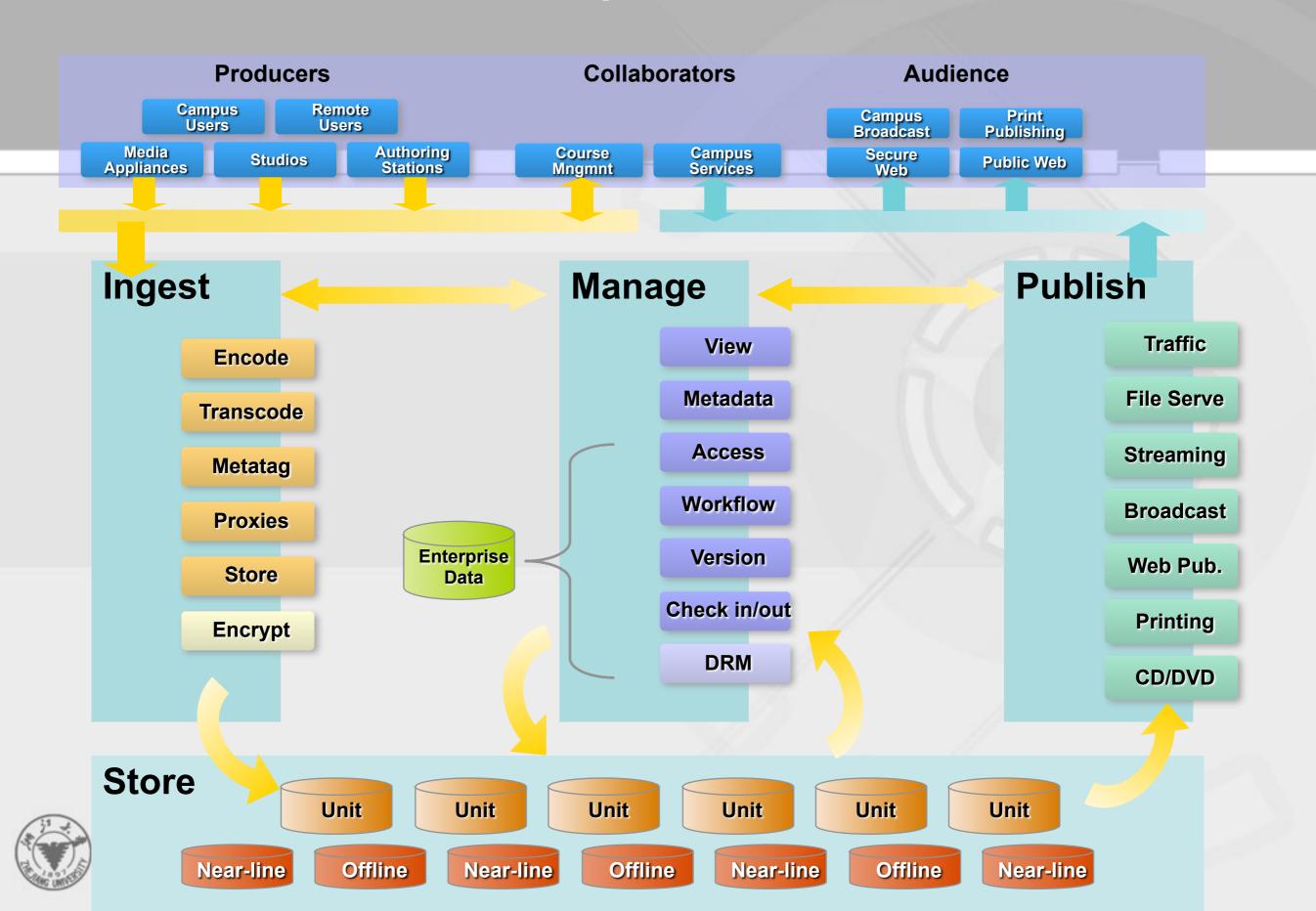
DAMS

Storage

Network

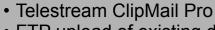


DAMS Component Services

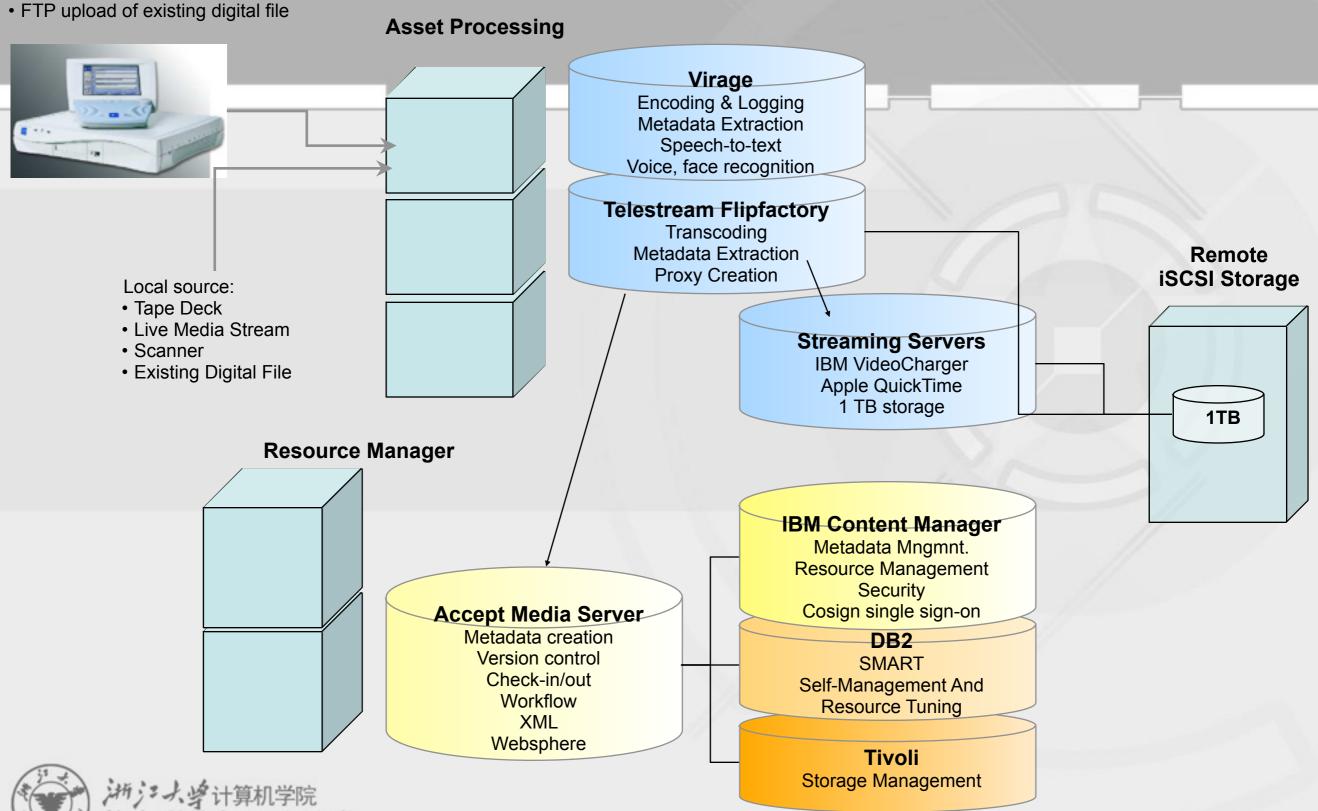


DAMS Living Lab Configuration

Remote Source:

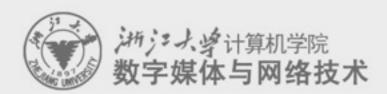


月日 12 万 Library Server

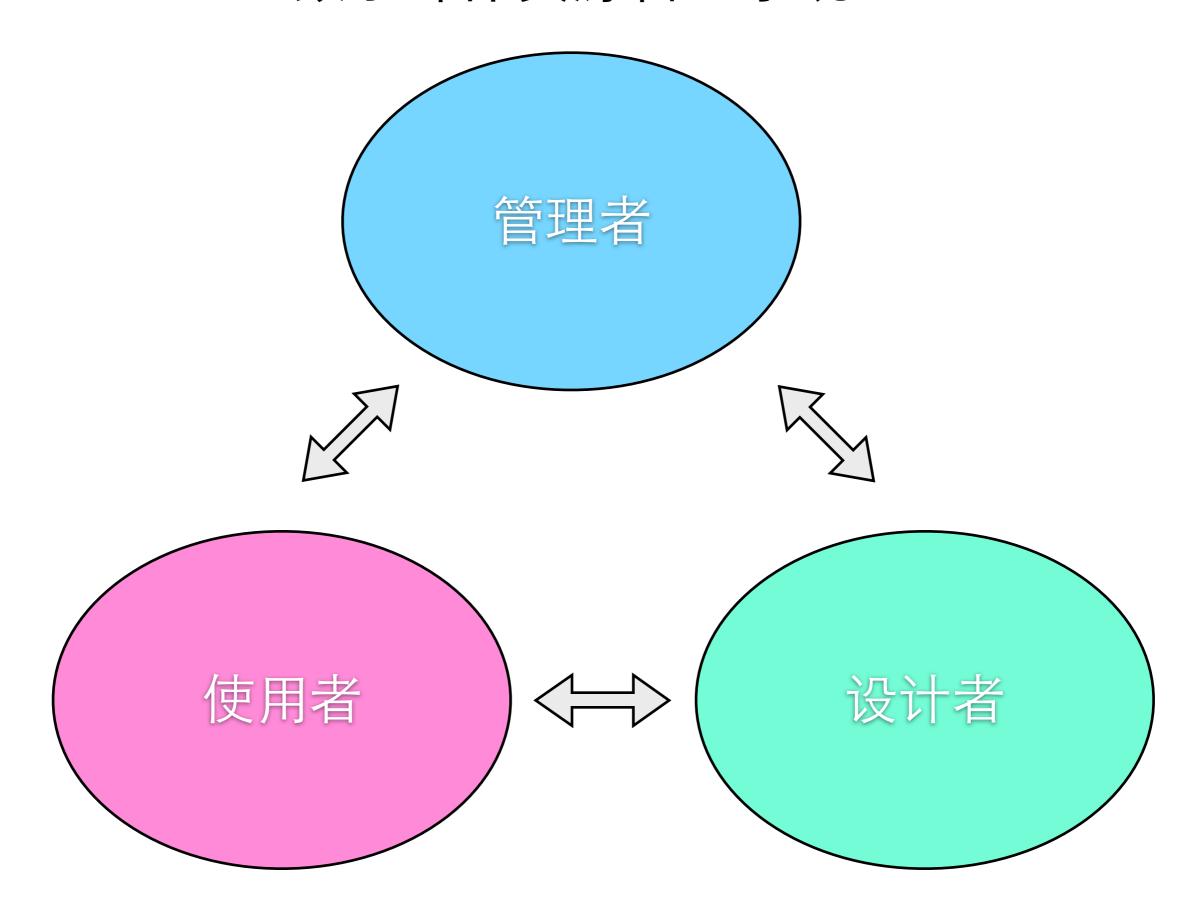


Extreme case ...

- Iron Mountain (铁山): 世界上最安全的数据中心
 - http://digi.tech.qq.com/a/20100819/000388.htm



数字媒体资源管理系统



Homework today

- Send an e-mail containing to TA
 - damzju@163.com
 - include your name, ID, e-mail address
 - wechat number (not necessary, but recommended),
 - even a brief greeting to TA
- It's A0