


Rome, 29th-30th October 2007



DRIVER Infrastructure
The Demo

driver Digital Repository Infrastructure Vision for European Research

“European Information Space: Infrastructures, Services, and Applications Workshop”

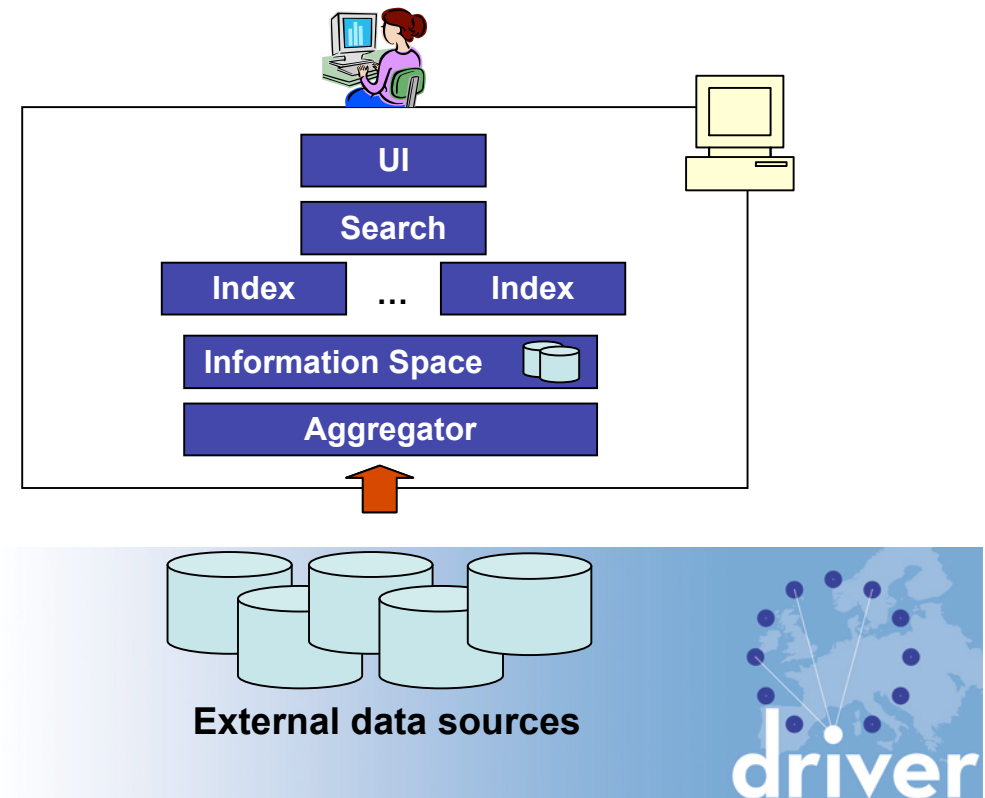
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DRIVER Infrastructure

- Targets VREs addressing “data integration”
 - Examples in Europe: DARE (NL), BASE (DE), PUMA (IT), DART Europe, etc.
- In order to
 - Overcome high maintenance costs, low degrees of scalability, and data sharing



DRIVER Resource KITs

- DRIVER middleware currently outsources two application paradigms
 - Data aggregation KIT
 - End-user functionality KIT
- Open to other application paradigms



DRIVER Data Aggregation KIT

- Harvesting tools
 - Easy “harvesting” of heterogeneous external data resources
- Aggregation tools
 - Data manipulation: e.g. enrichment, modification, transformations
 - Definition of *Information Spaces*: new data, of higher quality
- Data storage and access outsourcing
 - Automatic management of data storage and data access (sharing, replication, indexing, etc)



DRIVER End-User functionality KIT

- User Interfaces
 - Automatic adaptation to different Information Spaces features
- User profiling tools
 - Acquiring and exploiting user interest info
- User Community management
 - Enabling and easing the process of data selection activities
- User Recommendation mechanisms

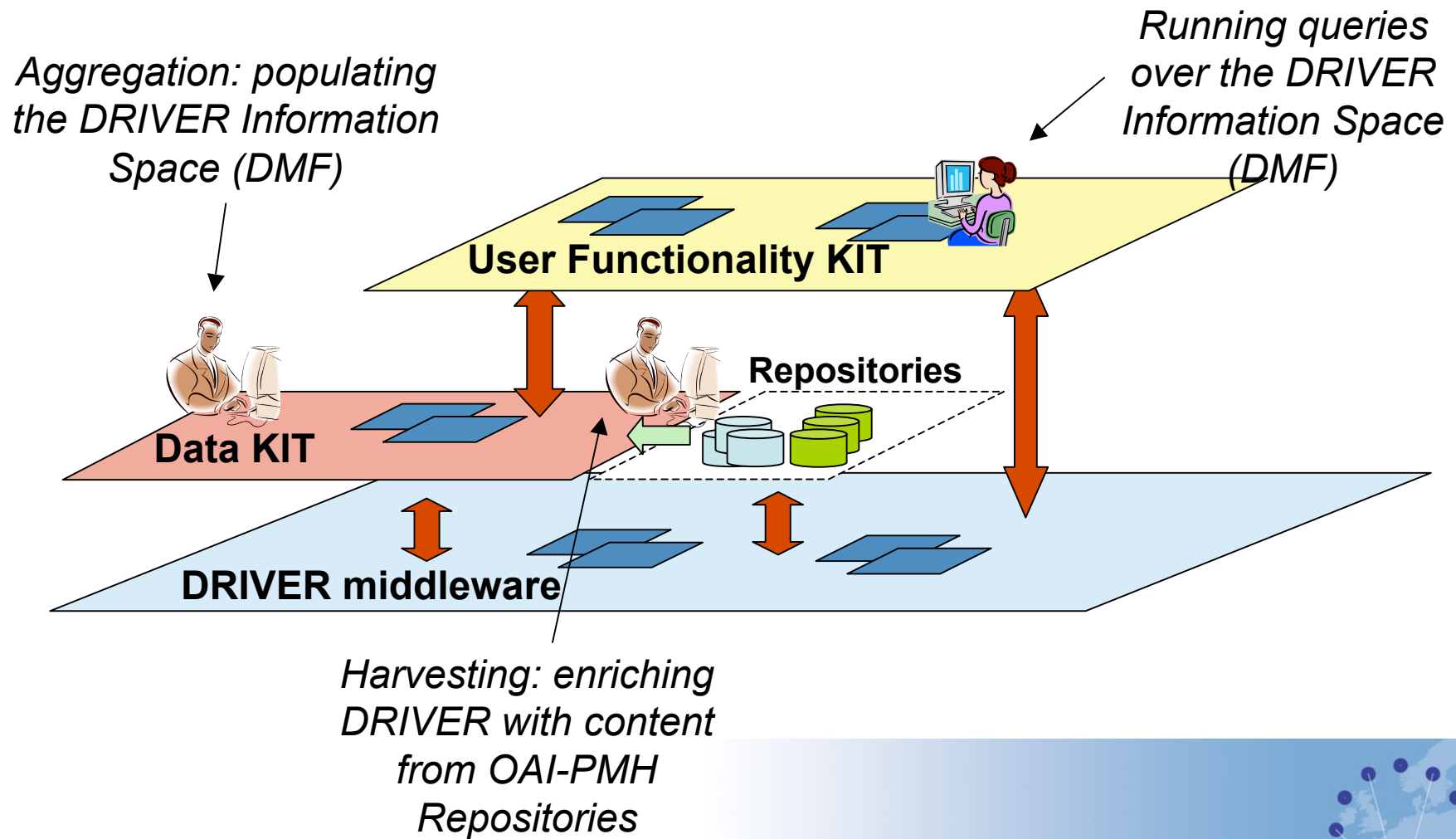


DRIVER European VRE

- *European VRE for Open Access publications*
 - Harvests content from European Repositories
 - Now: 51 Repositories for a total of 250.000 Open Access documents
 - Soon: up to 73 Reps by the end of the year
 - Maintains one European Information Space
 - *DRIVER Metadata Format (DMF)*
- Other VREs are to join DRIVER in the near future
 - Adding new content
 - Sharing existing content



DRIVER infrastructure: the DEMO



DEMO links

- <http://search1.driver-repository.eu/webInterface/>
- <http://driver10.isti.cnr.it/>
- <http://129.70.12.42:8007/cgi-bin/ASmanager.pl>

- Open Alpha release on DRIVER Information Space, final release by the end of the year
- Operates over the DRIVER Information Space and DMF documents
- It includes many functionalities, such as user registration and profiling, collections and communities, others will be introduced soon, such as browsing or user private collections
- From here we can search the whole information Space or focus on a subset by using collections
- For example:
 - we run the query: “american election”
 - Select the second document
 - Show the DMF: data cleaning, repository info, country
 - Enables definition of collections not only content-based but location-based
 - Show the document splash page
 - Get back to the search page and leave it there (it will be used for the same query)
- Move to the administrative interface, from which we can manage all infrastructure resources
- For example: monitoring of Nodes/Services and Repositories, thus external resources
 - New instances of the services can be added or removed and the infrastructure will keep the VRE's operative by exploiting the resources currently available
- We can also register a new Repository
 - New repositories are registered and put in “pending” mode, waiting for validation from an administrator
 - The validation of a repository to be harvested requires the allocation of storage space, of indexes, and the notification to the administrators that will have to configure the harvesting operation
- For example we can validate the Repository British Library as we know it contains documents related with “american election” to see the immediate effect of the harvesting
- Open Aggregator in other Browser TAB
- These effects can be tracked down through the list of data structures created by the infrastructure
- Run again in the first tab the same query



Home page



The screenshot shows the DRIVER website home page. The header includes the DRIVER logo and the text "DIGITAL REPOSITORY INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH". Navigation links for HOME, LOOKFOR, and INFORMATION are visible. The main content area is divided into three columns. The left column contains a sidebar with links to DRIVER Network, Joining DRIVER, Guidelines, Partners, Country Pages, 'Mentor', DRIVER Wiki, Community News, and Events. The middle column features a welcome message, a warning about the testing phase, a paragraph of introductory text, a list of features and characteristics, a list of items coming soon, and a search bar. The right column lists DRIVER Announcements and DRIVER Communities, including Anthropologists, British Historians, and Computer Scientists.

driver DIGITAL REPOSITORY INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

HOME LOOKFOR INFORMATION

Home

DRIVER Network

- Joining DRIVER
- Guidelines
- Partners
- Country Pages
- 'Mentor'
- DRIVER Wiki

Community News

- Petition for guaranteed public access to publicly-funded research results
- Spanish Repositories to Receive Funding
- Irish Universities Institutional Repositories Project
- More...

Events

- 11th ECDL conference
- EUA Autumn Conference
- More...

Welcome to the DRIVER website, portal to the European research information.

! Please note that the portal is currently at its testing phase. It may therefore run relatively slow. DRIVER endeavours to rectify this in due course.

Use this site to access various DRIVER products and services, such as the [DRIVER Support site](#). Here you will find information about the project itself and its relevance to researchers, institutional and repository managers, funding agencies and others, as well as information about building repositories and activities in European countries. The DRIVER website also give you access to the [DRIVER Guidelines](#) and the [DRIVER wiki](#). The DRIVER portal offers a number of features and characteristics that are ready to use and others that will become available soon. More specifically:

Features & characteristics

- > Access to public documents in a consistent and harmonized way from over 70 repositories ([click here to get a full list](#))
- > [Advanced searching](#) capabilities
- > Use of [Collections](#) and [Communities](#) allowing virtual views on the data
- > [Personalized services](#) that allow registered users to systematically filter their searches based on their individual research interests
- > Dynamic growth of the [DRIVER content](#) by real-time repository data harvesting
- > [Distributed and scalable](#) infrastructure supporting
 - >> dynamic deployment of DRIVER nodes and services
 - >> integration of external services requiring minimal effort
 - >> provision of existing DRIVER services to other service providers

Coming soon

- > Browsing and navigating capabilities
- > User and community related recommendation and alerting services
- > Repository managers' tools for easy registration and data quality feedback

Search in Repositories

[Advanced Search](#)

DRIVER Announcements



- >> We have built a very limited n of collections and communities use. Please let us know whether can create additional ones for your research needs.
- >> The DRIVER (pre)-alpha rele here! Feel free to look around. Your feedback will be very much appr

DRIVER Communities

- Anthropologists**
Researchers interested in Anthr the science of humankind, study facets of society and
- British Historians**
Researchers on British history.
- Computer Scientists**
Research community with gener interests in computer science an issues.



Query results



DIGITAL REPOSITORY INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

HOME LOOKFOR INFORMATION

Search Results (8 documents)

Pages 1 of 1 << < 1 > >>

THE RECENT US ELECTION AS AN INFORMATION SYSTEM CASE STUDY

CREATOR(S): Heng, Michael S.H.

DESCRIPTION: This paper adopts an information systems perspective to study the recent American presidential election. The election may be seen as a decision making process to choose the leader to represent the wishes ...

REPOSITORY: DSpace at Vrije Universiteit Amsterdam
Repository Info | Repository's web site

LANGUAGE(S): English

DOCUMENT: View this document ...

BRINGING THE MEMBERS BACK IN? DEMOCRATIZING CANDIDATE SELECTION IN BRITAIN AND SPAIN

CREATOR(S): Hopkin, Jonathan

DESCRIPTION: Primary elections and membership ballots are becoming more common as a means of selecting candidates in European parties. This article assesses the likely implications of these changes for party cohes ...

REPOSITORY: DSpace at the London School of Economics Library
Repository Info | Repository's web site


LANGUAGE(S): English

DOCUMENT: View this document ...

DEMOKRATIE UND PACTA SUNT SERVANDA

CREATOR(S): Fulda, Christian B.

DESCRIPTION: International law provides for a democratic principle. It is based both on treaty law




My Account

SUPPORT

Start new Search

MODIFY YOUR SEARCH	REFINE YOUR SEARCH
All Fields	all
american election	
More Preferences	
▶ Date of Publication	
▶ Document type	
▶ Document Language	
▶ Repository	
▶ Community	
▶ Collection	
Reset	
Search	
SELECTED FIELDS	hide details
SEARCH HISTORY	
• (american AND election)	
• (american AND election)	
• (american AND election)	
• (american AND election)	



DRIVER Metadata Format

Document Information

THE RECENT US ELECTION AS AN INFORMATION SYSTEM CASE STUDY

CREATOR(S): Heng, Michael S.H. ;

DESCRIPTION: This paper adopts an information systems perspective to study the recent American presidential election. The election may be seen as a decision making process to choose the leader to represent the wishes and interests of the people. The system supporting the process is an information system, with information technology, inputs, outputs, users, human operators, procedures, assumptions, and goals. The information system is supposed to serve as an objective instrument to support the decision making process of political election. But its functioning is deeply embedded in the political life, with its history, institutions, procedures, norms and strengths and flaws. The output of the system is thus a good enough answer, rather than the most accurate answer. All these aspects feature prominently in the recent election. In addition, the impasse in Florida reveals several problems; the more important ones are (1) the controversy surrounding voting cards that not clearly punched (2) the use of outdated technology, (3) the tension between democratic ideal and legal and political expediency.

PUBLISHER(S): Vrije Universiteit Amsterdam

CONTRIBUTORS(S): -

REPOSITORY

NAME: DSpace at Vrije Universiteit Amsterdam

LINKS: [Repository Info](#) | [Repository's web site](#)

COUNTRY: NL

INSTITUTION: -

SUBJECT(S): history; L86; political expediency; truth; meaning; American presidential election.; interpretation; socially embedded; procedures;

TYPE(S): Research paper

LANGUAGE(S): English

DOC LINK: [View this document ...](#)

MODEL: OAI;

METADATA FORMATS: oai_dc;

PUBLICATION DATES(S): 2004-01-05

COLLECTION DATES(S): 2007-10-07T08:09:19Z



Virtual collections



The screenshot displays the DRIVER website interface. At the top left, the DRIVER logo is accompanied by a red 'alpha release' stamp. The main header reads 'DIGITAL REPOSITORY INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH'. On the right, the 'e-infrastructure' logo is visible, along with links for 'My Account' and 'SUPPORT'. A navigation bar includes 'HOME', 'LOOKFOR', and 'INFORMATION'. The 'Collections' section on the left lists various categories, with 'German Repositories' selected. The main content area features a search bar with the text 'SEARCH WITHIN THE COLLECTION' and a 'Search' button. Below this, the 'GERMAN REPOSITORIES' collection is displayed, including a description field with the placeholder 'Write a content', a subject field with 'German Repositories', a parent collection field with a dash, a number of documents field with '0', and a last update date of 'Thu Sep 27 00:00:00 EEST 2007'. A 'Querv - Criteria' section is also present at the bottom.

alpha release

driver

DIGITAL REPOSITORY INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

e-infrastructure

My Account

SUPPORT

HOME LOOKFOR INFORMATION

Collections

- German Repositories
- Computer Science
- French Repositories
- Law
- Medical
- Pharmacy
- Italian Repositories
- History
- Biology
- Social and Economic Sciences
- Anthropology
- Ethnology
- European Thesis and Dissertations

SEARCH WITHIN THE COLLECTION Search

GERMAN REPOSITORIES [View All Collection Documents...](#)

Description

Write a content

Subject

German Repositories

Parent Collection

-

Number of Documents

0

Last update Date

Thu Sep 27 00:00:00 EEST 2007

Querv - Criteria

Administrative interface

Your location: Administration Interface > Home > Welcome

Welcome **admin** | Logout

DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

Home | Services | Repositories | Network | Data Structures | Collections | Schemas | Aggregators

Data structures List

driver

Welcome to DRIVER

[Repository map](#)

[Network map](#)

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Original design by [Driver team](#)  

Repository management

Your location: Administration Interface > Repositories > Show Map

Welcome admin Logout

DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

Home Services Repositories Network Data Structures Collections Schemas Aggregators

Show Map Add Repository List Repositories

driver

Number of records: ● < 50 ● 50 - 500 ● 500 - 1000 ● > 1000

Map Satellite Hybrid

Repositories

- FR Archimer, Archive Institutionnelle de l'Ifremer
- DE ask23 repository (lkw, hfbk hamburg, germany)
- DE BieSON - Bielefelder Server fuer Online-Publikationen (University of Bielefeld, GERMANY)
- UK Bristol Repository of Scholarly Eprints (ROSE)
- UK British Library Research Archive
- HU Debreceni Egyetem elektronikus Archivumak (DEA)
- NL Dissertations of the Universiteit van Amsterdam
- NL DSpace at Open Universiteit Nederland
- NL DSpace at Radboud Univ. Nijmegen
- UK DSpace at the London School of Economics Library
- BE DSpace at UGent
- NL DSpace at University Leiden
- NL DSpace at Utrecht University
- NL DSpace at Vrije Universiteit Amsterdam

The map displays repository locations across Europe, with colored dots indicating the number of records. The legend shows: green for < 50, orange for 50 - 500, purple for 500 - 1000, and red for > 1000. Major cities and countries are labeled, including London, Paris, Berlin, Rome, and Moscow. The map also features navigation controls like zoom in/out and a search icon.



Node and Service management

Your location: Administration Interface > Network > Show Map

Welcome admin Logout

DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

Home Services Repositories Network Data Structures Collections Schemas Aggregators

Show Map Active Inactive Add DHN

Legend Host Node

Map Satellite Hybrid

Hosting Nodes

- driver10.isti.cnr.it (146.48.87.161)
 - 8009 (IS_UI, CS_UI)
 - 8005 (DLM)
 - 8004 (TextEngine)
 - 8006 (Publisher)
 - 8008 (MS_RO)
 - 8010 (CS_Engine)
 - 8007 (IS_LookUp)
 - 8003 (ResultSet)
 - 8001 (IS_Registry)
 - 8000 (IS_SN)
 - 8002 (IS_Store)
- driver.di.uoa.gr (195.134.67.237)
 - 8104 (ResultSet)
 - 8103 (Index)
 - 8101 (ResultSet)
 - 8102 (ResultSet)
 - 8100 ()
- ubdriver.ub.uni-bielefeld.de (129.70.12.42)
 - 8006 (MDStore)



Repository registration and validation

Your location: Administration Interface > Repositories > List Repositories

Welcome admin Logout

DIGITAL REPOSITORIES INFRASTRUCTURE VISION FOR EUROPEAN RESEARCH

Home Services Repositories Network Data Structures Collections Schemas Aggregators

Show Map Add Repository List Repositories



DRIVER Repository Management

90 elements

	Official name	Size	Country	Status	
Filter: ALL					
1	Archimer, Archive Institutionnelle de l'Ifremer	2159	FR	valid invalidate	delete
2	BieSON - Bielefelder Server fuer Online-Publikationen (University of Bielefeld, GERMANY)	883	DE	valid invalidate	delete
3	Bristol Repository of Scholarly Eprints (ROSE)	852	UK	valid invalidate	delete
4	British Library Research Archive	41	UK	valid invalidate	delete
5	DSpace at Open Universiteit Nederland	112	NL	valid invalidate	delete
6	DSpace at Radboud Univ. Nijmegen	6913	NL	valid invalidate	delete
7	DSpace at UGent	2938	BE	valid invalidate	delete
8	DSpace at University of Leiden	2124	NL	valid	delete



Repository harvesting and aggregation



DRIVER Aggregator Manager - OAI Admin Panel

[List of Repositories](#)

Repository Information

[Identify](#) - [ListSets](#) - [ListMetadataFormats](#)

Harvesting

Nr.	Format unit	Status	Last Harvesting Date	Harvestingtype	Harvesting schedule
1	oai_dc	inactive	2007-10-28T17:25:46Z	REFRESH	WEEKLY

Aggregating

[Start aggregating](#) [Test Mapping](#) [Re-Feed](#)

Repository:	British Library Research Archive
Repository ID:	14-a8a2cc8b-b42c-442f-a67c-a5a3fde13c34_UmVwb3NpdG9yeVNIcnZpY2VSZXNvdXJjZXMvUmVwb3NpdG9yeVNIcnZpY2VSZXNvdXJjZVR5cGU=
Harvesting	17-a02d4b2a-b21d-400b-af4b-ad741d92f10_SCEvdmVzdCh70hc2BhbWNIbENScZYndYjZVMuSCEvdmVzdCh70hc2BhbWNIbENScZYndYjZVR5cGU=

