

Standardi za pakiranje elektronskih učnih gradiv

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MINISTRSTVO ZA ŠOLSTVO IN ŠPORT

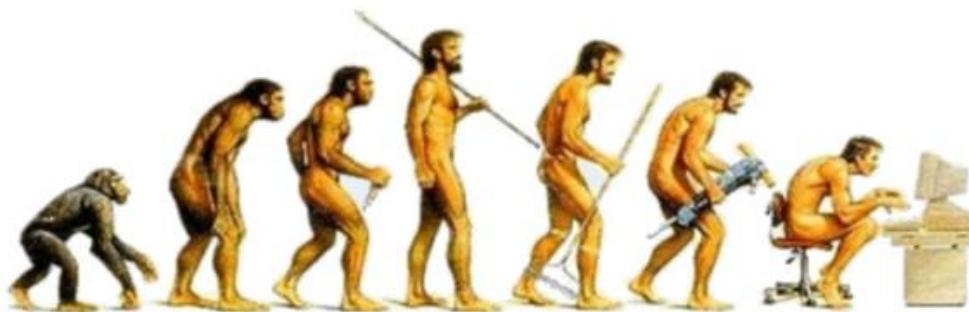


Zgodovina in razvoj

- AICC CMI (1993)



- strukturiranje vsebine
 - navigacija
- komunikacija z VLE
 - ocenjevanje
 - sekvenčenje
- pakiranje v arhiv zip

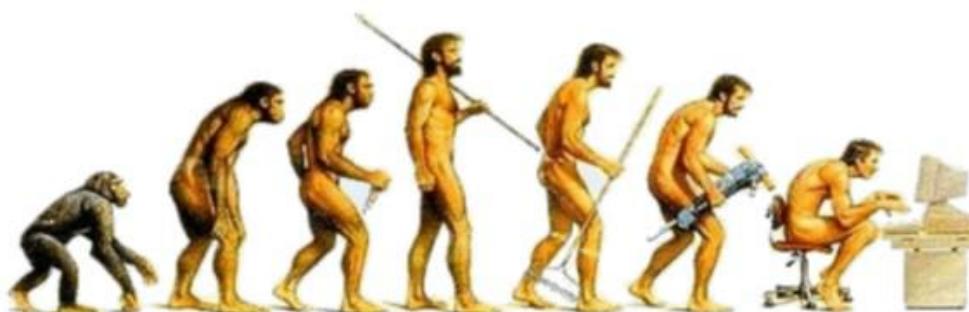


Zgodovina in razvoj

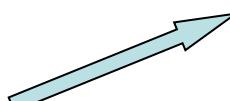
- AICC CMI (1993)
- **ADL SCORM**
 - 1.2 (2001)
 - 2004 (2004)

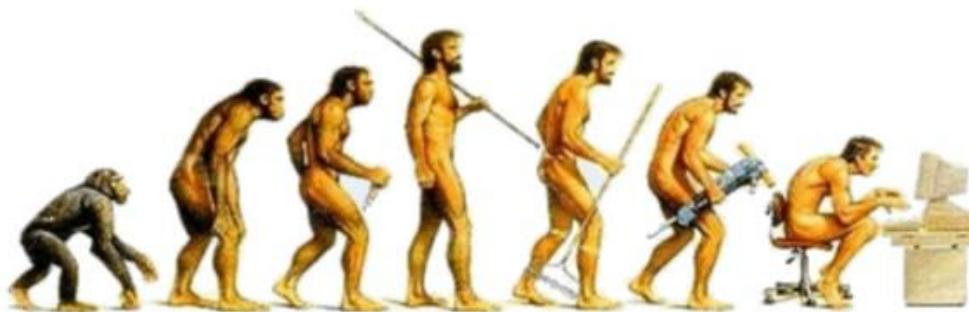


- izobraževanje preko spletja
- struktura tečaja v eni datoteki (manifest)
- komunikacija z VLE preko API
 - ocenjevanje
 - sekvenčenje
- pakiranje v arhiv zip



Zgodovina in razvoj

- AICC CMI (1993)
 - ADL SCORM
 - 1.2 (2001)
 - 2004 (2004)
 - **IMS Common Cartridge (2008)**
- izobraževanje preko spletja
 - struktura tečaja v eni datoteki (manifest)
 - ukinja komunikacijo z VLE
 - pakiranje v arhiv zip
 - ocenjevanje po standardu QTI
 - vključitev spletnih servisov
- 



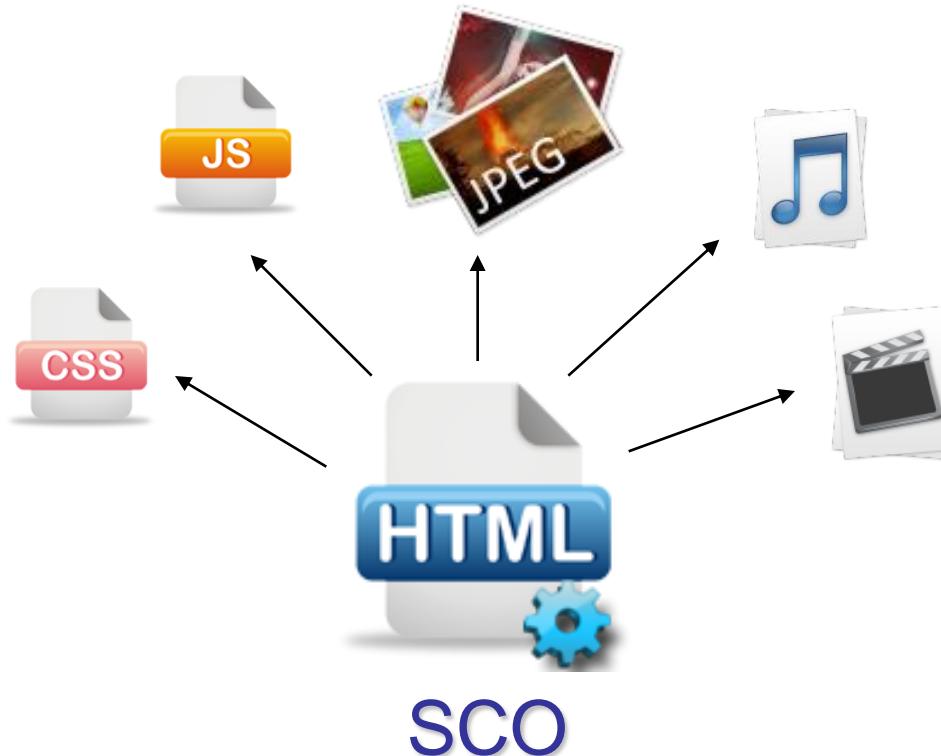
SCORM

Sharable
Content
Object
Reference
Model



SCORM

Sharable
Content
Object
Reference
Model



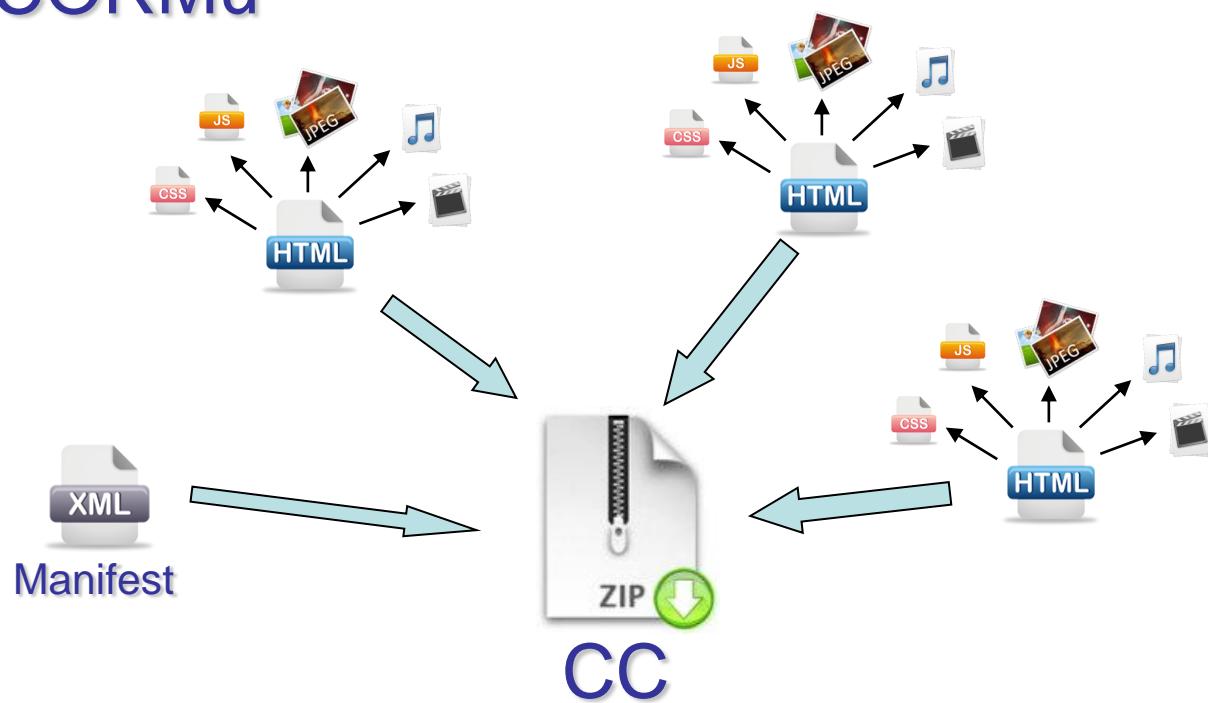
SCORM

Sharable
Content
Object
Reference
Model



IMS Common Cartridge

- podoben SCORMu



IMS Common Cartridge

- podoben SCORMu
- ne vsebuje prog. vmesnika API

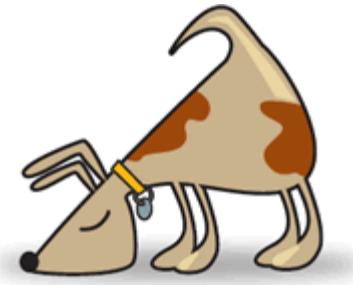
IMS Common Cartridge

- podoben SCORMu
- ne vsebuje prog. vmesnika API
 - uporaba navadnih spletnih strani



IMS Common Cartridge

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- ne vsebuje prog. vmesnika API
 - uporaba navadnih spletnih strani
 - **ni sledenja uporabniku**



IMS Common Cartridge

- podoben SCORMu
- ne vsebuje prog. vmesnika API
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 - ni sledenja uporabniku
- **uvaja nove možne vsebine**



IMS Common Cartridge

- podoben SCORMu
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 - ni sledenja uporabniku
- uvaja nove možne vsebine
 - ocenjevanje QTI



IMS Common Cartridge

- podoben SCORMu
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- uvaja nove možne vsebine
 - ocenjevanje QTI
 - spletnе storitve LTI



QTI (*Question and Test Interoperability*)

```

<item title="TEMPERATURE - QUESTION 2">
  <itemmetadata>
    <qtimetadata>
      <qtimetadatagrid>
        <fieldlabel>cc_profile</fieldlabel>
        <fieldentry>cc:multiple_choice.v0p1</fieldentry>
      </qtimetadatagrid>
    </qtimetadata>
  </itemmetadata>
  <presentation>
    <material>
      <mattext texttype="text/html">Choose one of the following options:</mattext>
    </material>
  </presentation>
  <response_lid ident="Q1" cardinality="Single">
    <render_choice>
      <response_label ident="A-0">
        <material>
          <mattext texttype="text/html">P/T = constant.</mattext>
        </material>
      </response_label>
      <response_label ident="A-1">
        <material>
          <mattext texttype="text/html">P*T = constant.</mattext>
        </material>
      </response_label>
      <response_label ident="A-2">
        <material>
          <mattext texttype="text/html">P does not depend on T.</mattext>
        </material>
      </response_label>
    </render_choice>
  </response_lid>
  <resprocessing>
    <outcomes>
      <deivar minvalue="0" maxvalue="100" varname="SCORE" vartype="number">
        <!-->
      </deivar>
    </outcomes>
    <rescondition>
  </resprocessing>
</item>

```

Datoteka XML

Choose one of the following options:

P/T = constant.

P*T = constant.

P does not depend on T.

Icodeon

TEMPERATURE - QUESTION 2

Choose one of the following options:

P/T = constant.

P*T = constant.

P does not depend on T.

MIR

Choose one of the following options:

Choose one answer.

a. P/T = constant.

b. P*T = constant.

c. P does not depend on T.

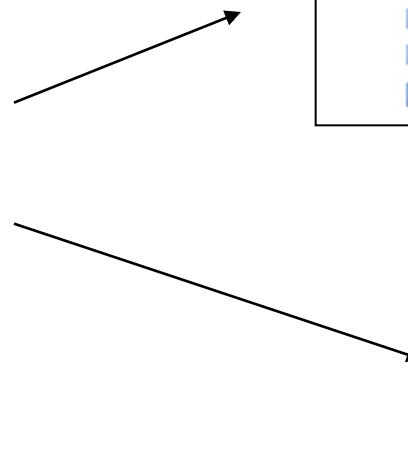
Moodle

LTI – forum

(Learning Tool Interoperability)

```
<dt:topic xmlns:dt="http://www.imsglobal.org/xsd/imsdl_v1p2.xsd">
    <title>Forum on Steam Boats</title>
    <text texttype="text/html">
        On this Forum we discuss Steam Boats.
        Try to make one by yourself and test it
        in your kitchen sink.
    </text>
</dt:topic>
```

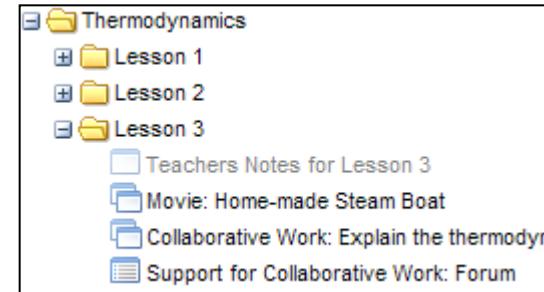
Datoteka XML



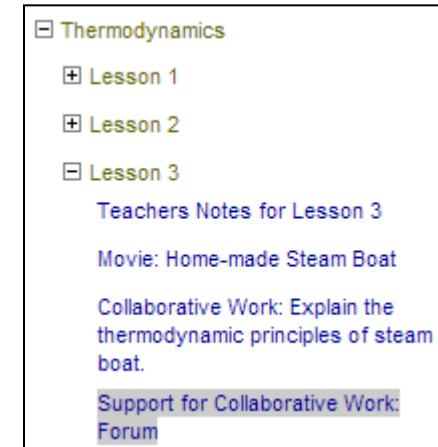
Lesson 3

- Teachers Notes for Lesson 3
- Movie: Home-made Steam Boat
- Collaborative Work: Explain the thermodynamic principles of steam boat.
- Support for Collaborative Work: Forum - Forum on Steam Boats

Moodle



Lcodeon



MIR



SPLET IZOBRAŽEVANJA IN RAZISKOVANJA Z IKT

LTI – e-knjiga (Learning Tool Interoperability)

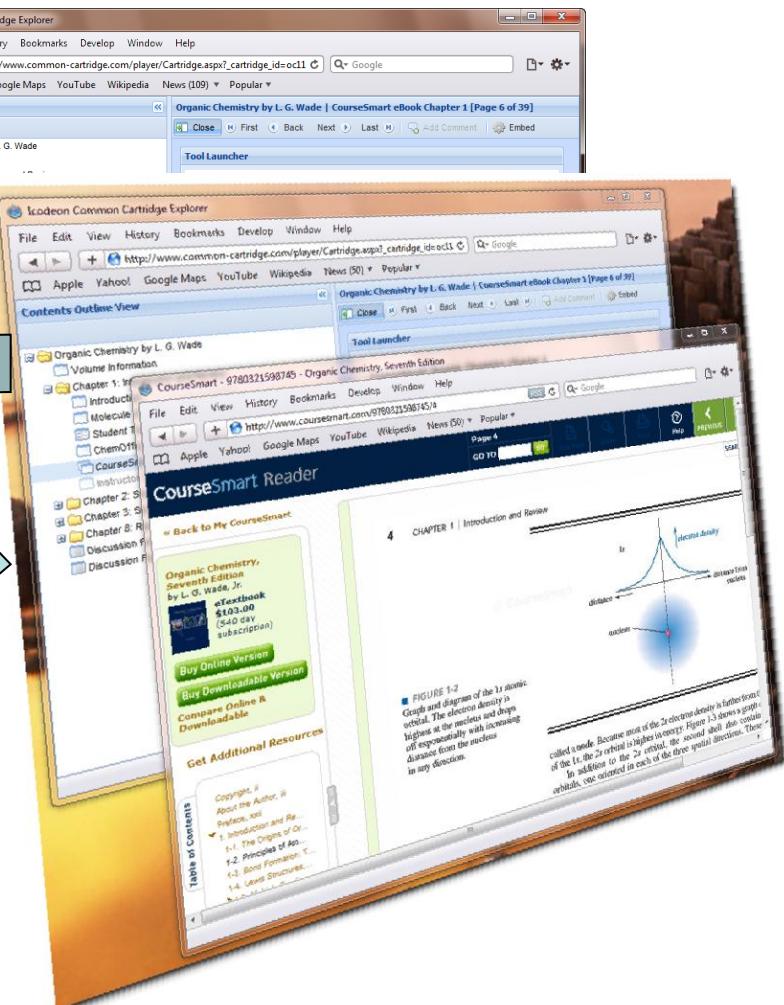
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<basic_lti_link>
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  <custom>
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  </custom>
  <launch_url>
    http://ebooks.coursesmart.com/CSE1
  </launch_url>
  <vendor>
    <name>CourseSmart</name>
    <description>
      A link to the CourseSmart
      edition of Organic Chemistry,
      7th edition, by Leroy G. Wade Jr.
      by Pearson Prentice Hall.
    </description>
  </vendor>
</basic_lti_link>
```

Datoteka XML



MINISTRSTVO ZA ŠOLSTVO IN ŠPORT

REPUBLIKA SLOVENIJA

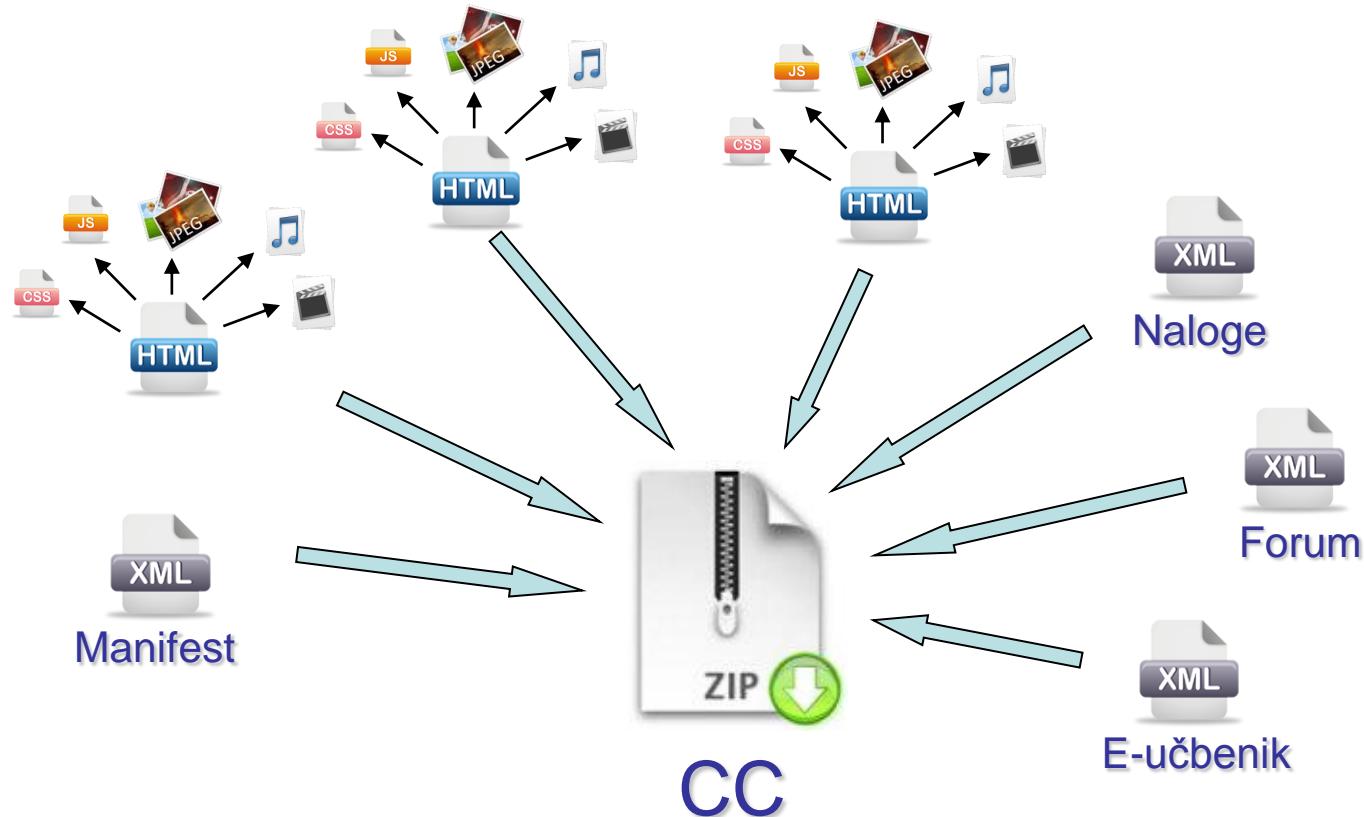


vir: <http://ccplatform.blogspot.com/>



Naložba v vašo prihodnost
OPERACIJO DELNO FINANCIRA EVROPSKA UNIJA
Evropski socialni sklad

IMS Common Cartridge - paket



Vprašanja



Hvala za pozornost!