

**The AcroTeX eEducation
Bundle**

The University of
Akron

D. P. Story



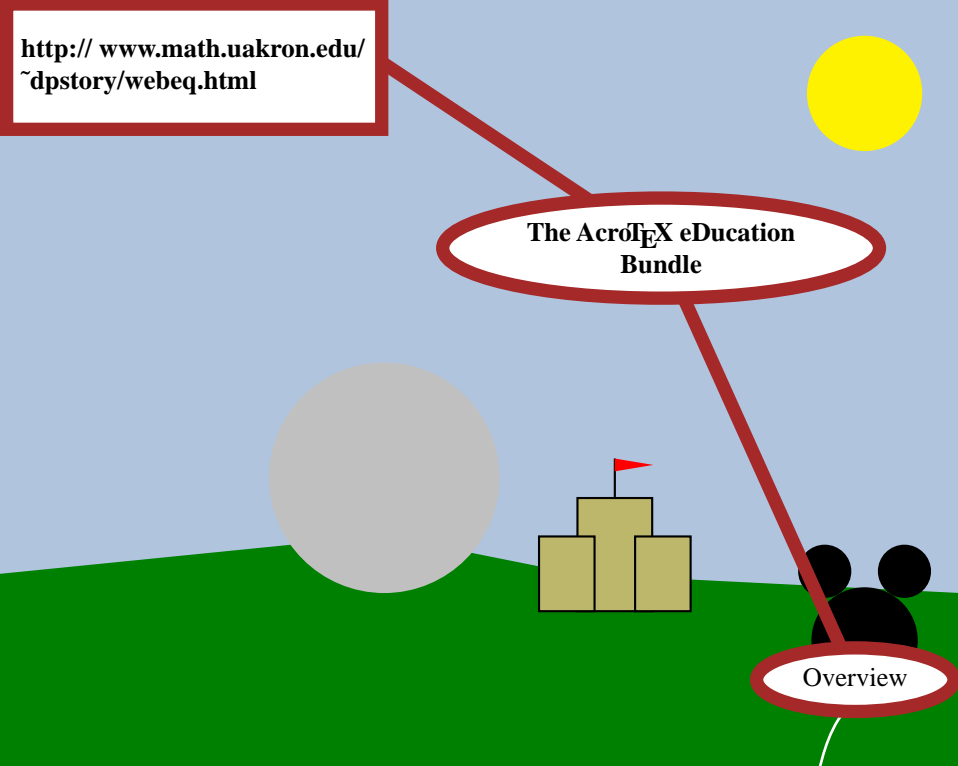
**The AcroT_EX eDucation
Bundle**

Overview

[http:// www.math.uakron.edu/
~dpstory/webeq.html](http://www.math.uakron.edu/~dpstory/webeq.html)

**The AcroT_EX eDucation
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Overview



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~dpstory/webeq.html](http://www.math.uakron.edu/~dpstory/webeq.html)

- Document authoring system

The AcroT_EX eDucation Bundle

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- Document authoring system

- Source File: \LaTeX Markup

The $\text{AcroT}_{\text{E}}\text{X}$ eEducation Bundle

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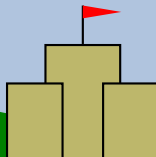
- Document authoring system

- Source File: \LaTeX Markup

- Final Form: PDF

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- **Bundle Packages**

Web, Exerquiz
insDLJS, dljsLib

The AcroTeX eEducation Bundle

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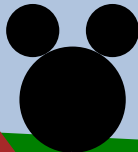
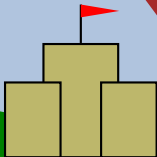
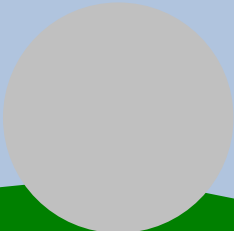
Web, Exerquiz
insDLJS, dljsLib

- Examples



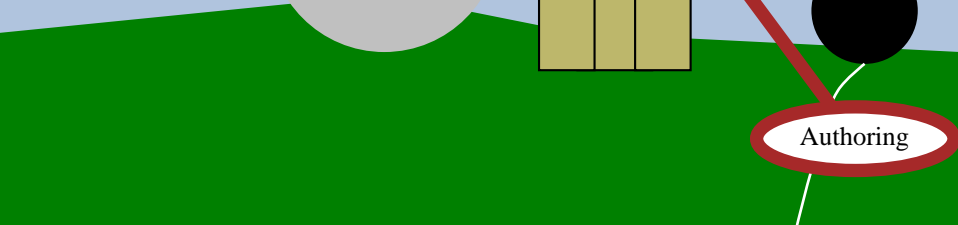
The Acro \TeX eEducation Bundle

Overview



Source File:
L^AT_EX Markup

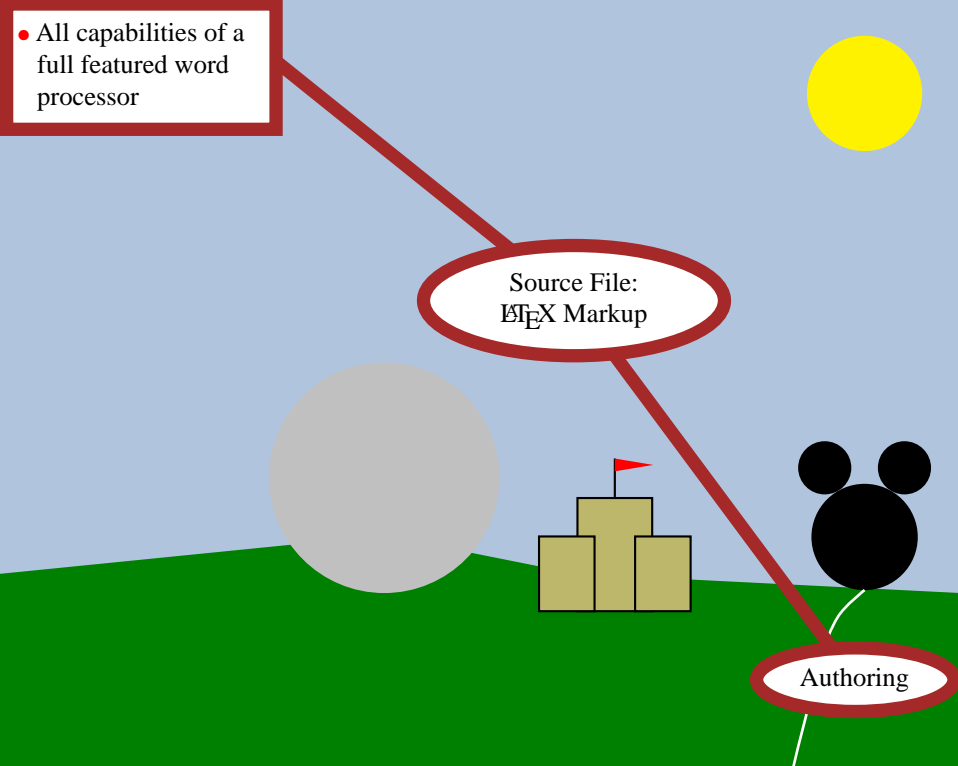
Authoring



- All capabilities of a full featured word processor

Source File:
 \LaTeX Markup

Authoring

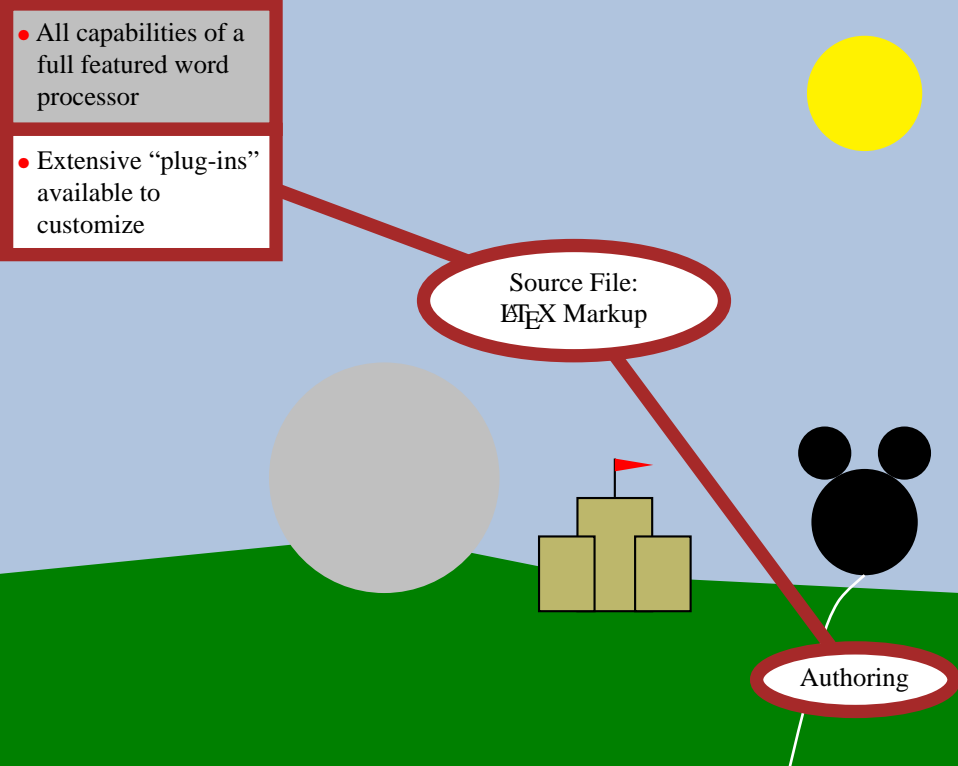


- All capabilities of a full featured word processor

- Extensive “plug-ins” available to customize

Source File:
L^AT_EX Markup

Authoring



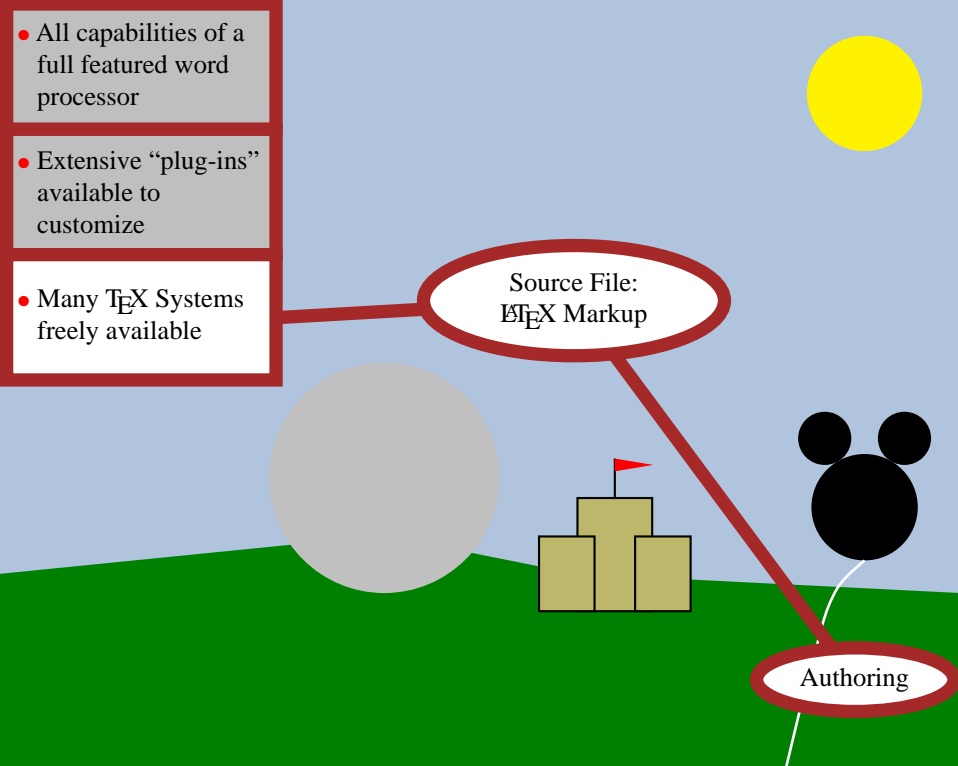
- All capabilities of a full featured word processor

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- Many $\text{T}_{\text{E}}\text{X}$ Systems freely available

Source File:
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Authoring



- All capabilities of a full featured word processor

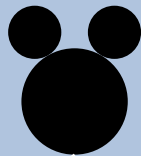
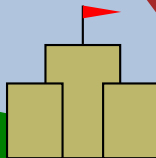
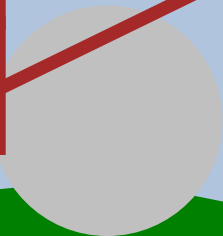
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- TUG:
▶ www.tug.org

Source File:
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Authoring



Output File: Portable Document Format (PDF)

Authoring

- Preserves page layout of authoring application

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Authoring

- Preserves page layout of authoring application

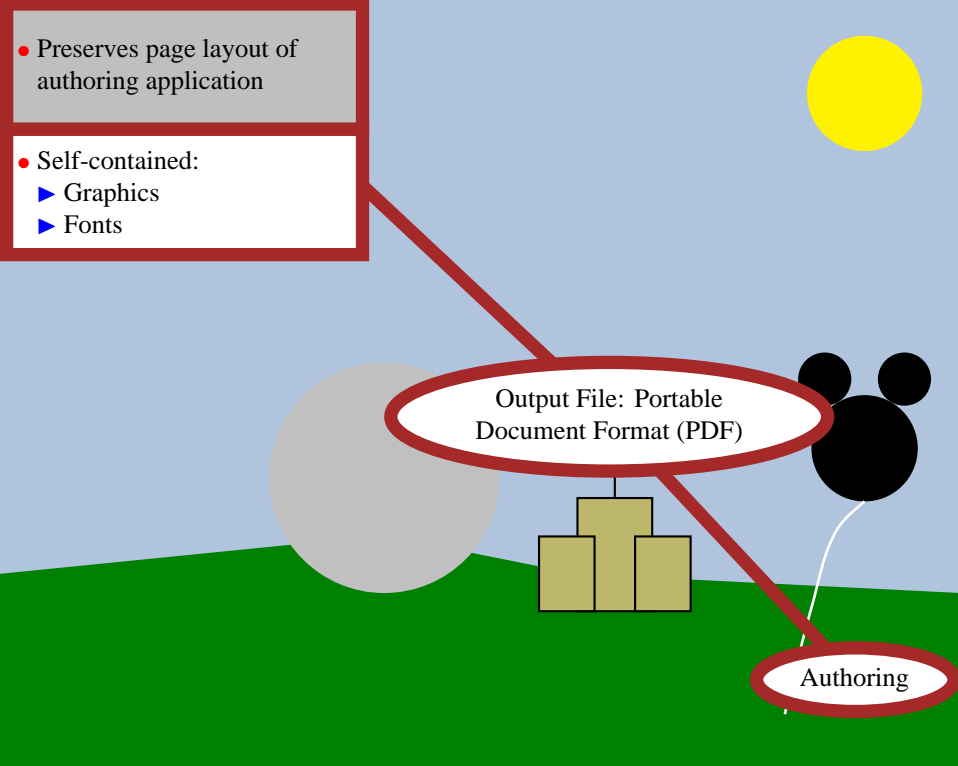
- Self-contained:

- ▶ Graphics

- ▶ Fonts

Output File: Portable Document Format (PDF)

Authoring



- Preserves page layout of authoring application

- Self-contained:

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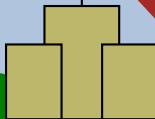
- Distribution

- ▶ Internet or Intranet

- ▶ CD

Output File: Portable Document Format (PDF)

Authoring



- Preserves page layout of authoring application

- Self-contained:

- ▶ Graphics
- ▶ Fonts

- Distribution

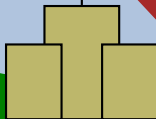
- ▶ Internet or Intranet
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- Interactivity:

- ▶ Hypertext links
- ▶ Form Elements

Output File: Portable Document Format (PDF)

Authoring



- Preserves page layout of authoring application

- Self-contained:

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- Distribution

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- Interactivity:

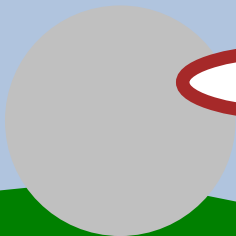
- ▶ Hypertext links
- ▶ Form Elements

- Scripting Language:

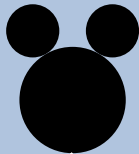
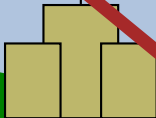
- ▶ JavaScript 1.5 Core
- ▶ Acrobat Extensions

Output File: Portable Document Format (PDF)

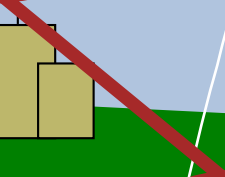
Authoring



Web Style



The Packages



- Page Design Package
 - ▶ Set page dimensions
- Background Design
 - ▶ Set Background color
 - ▶ Overlay graphics
 - ▶ Create left/right panel
- forpaper Option
- Language Localizations
 - French, German, Dutch, Danish, Spanish, Russian, Norwegian, Italian

The diagram features a light blue sky with a yellow sun in the top right and a grey sun in the middle left. A green ground line is at the bottom. A red-bordered box in the top left contains a list of design options. A red line connects this box to an oval labeled 'Web Style'. Another red line connects 'Web Style' to an oval labeled 'The Packages'. A white line connects 'The Packages' to a black Mickey Mouse head silhouette on the right. In the background, there is a grey sun, a yellow sun, and a tan bar chart with three bars of increasing height.

Web Style

The Packages

- Page Design Package

- PDF Creation Options

- ▶ dvips, dvipsone

- (.tex→.dvi→.ps→.pdf)

- ▶ pdftex (.tex→.pdf)

- ▶ dvi_{ps}pdfm (.tex→.dvi→.pdf)

- Language Localizations

- French, German, Dutch, Danish,
Spanish, Russian, Norwegian,
Italian

Web Style

The Packages



Exerquiz

The Packages

- Exercises

- ▶ Questions and Solutions
- ▶ Links to solutions at end of file, or separate file
- ▶ `solutionsafter` option
- ▶ `nosolutions` option

Exerquiz

The Packages

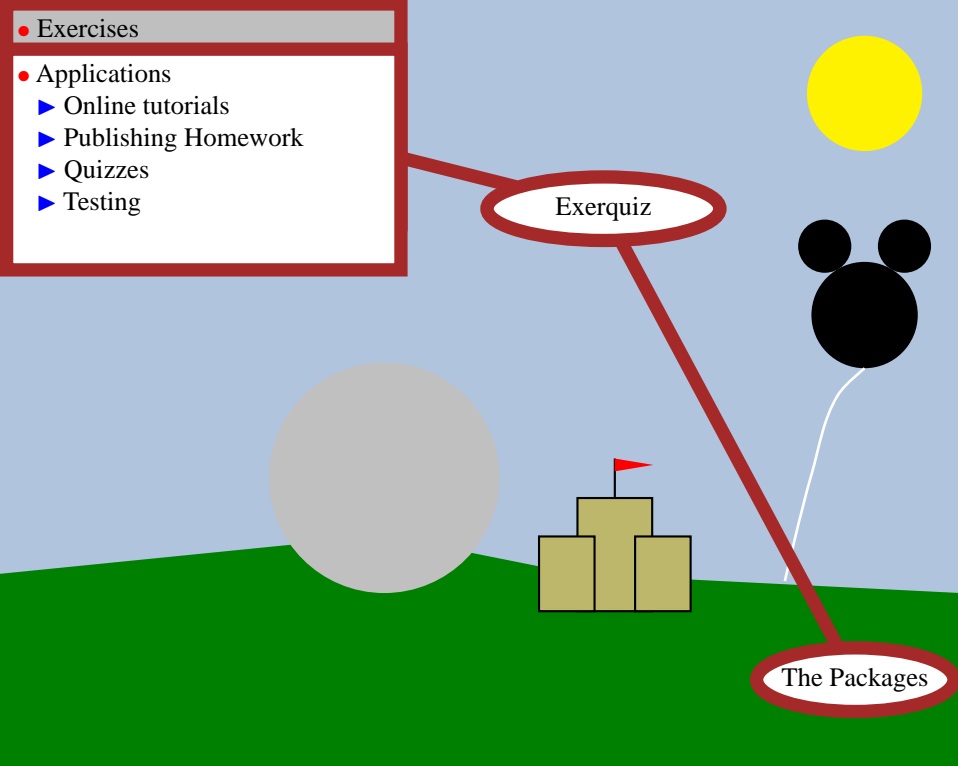
• Exercises

• Applications

- ▶ Online tutorials
- ▶ Publishing Homework
- ▶ Quizzes
- ▶ Testing

Exerquiz

The Packages



- Exercises

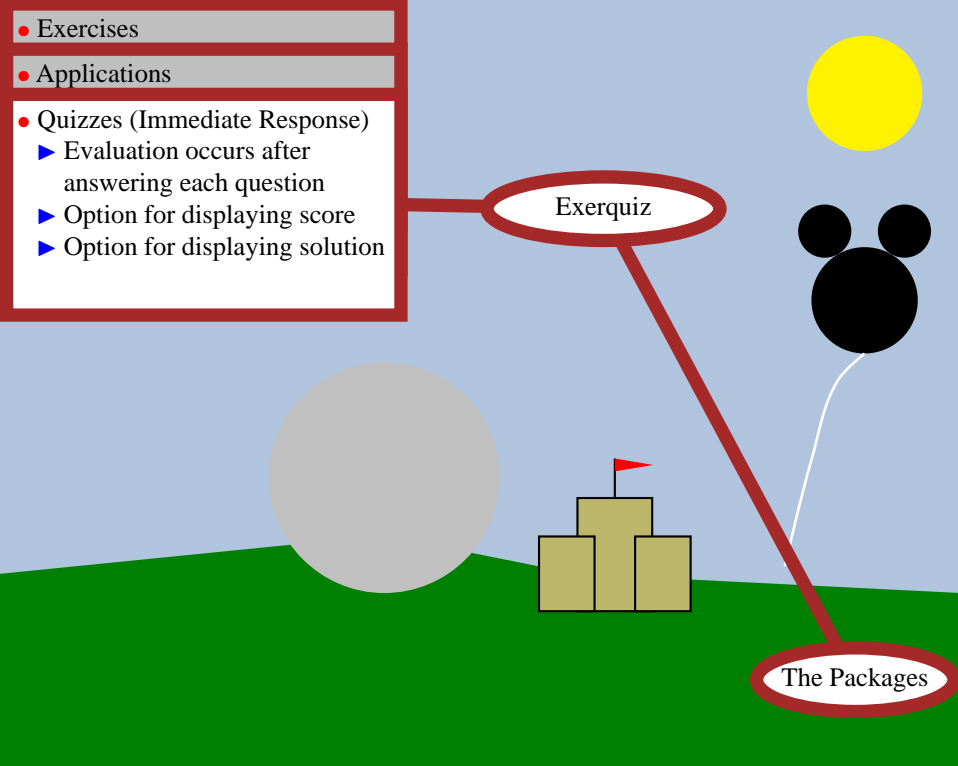
- Applications

- Quizzes (Immediate Response)

- ▶ Evaluation occurs after answering each question
- ▶ Option for displaying score
- ▶ Option for displaying solution

Exerquiz

The Packages



• Exercises

• Applications

• Quizzes (Immediate Response)

• Question Types

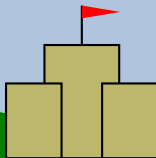
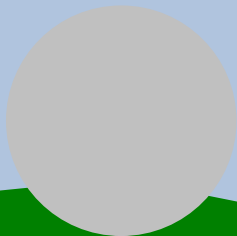
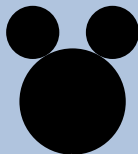
▶ Multiple Choice

▶ Text fill-in

▶ Math fill-in

Exerquiz

The Packages



- Exercises

- Applications

- Quizzes (Immediate Response)

- Question Types

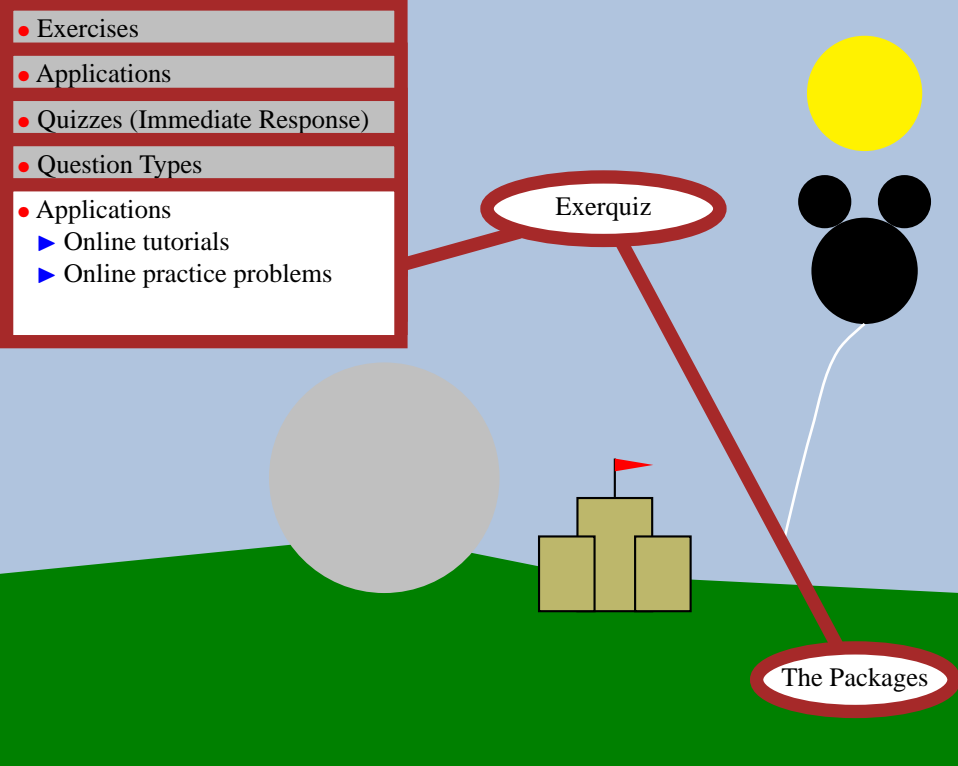
- Applications

- ▶ Online tutorials

- ▶ Online practice problems

Exerquiz

The Packages



- Exercises

- Applications

- Quizzes (Immediate Response)

- Question Types

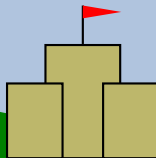
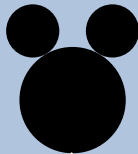
- Applications

- Quizzes (Delayed Response)

- ▶ Evaluation is delayed until student has completed the quiz
- ▶ Option for marking up the quiz
- ▶ Option for displaying score
- ▶ Option for displaying solution

Exerquiz

The Packages



- Exercises

- Applications

- Quizzes (Immediate Response)

- Question Types

- Applications

- Quizzes (Delayed Response)

- Question Types

- ▶ Multiple Choice

- ▶ Text fill-in

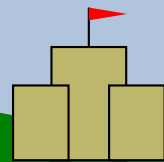
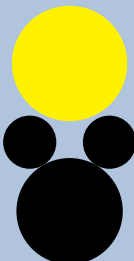
- ▶ Math fill-in

- ▶ Option for displaying score

- ▶ Option for displaying solution

Exerquiz

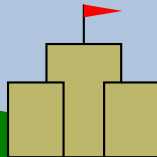
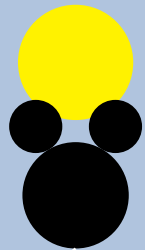
The Packages

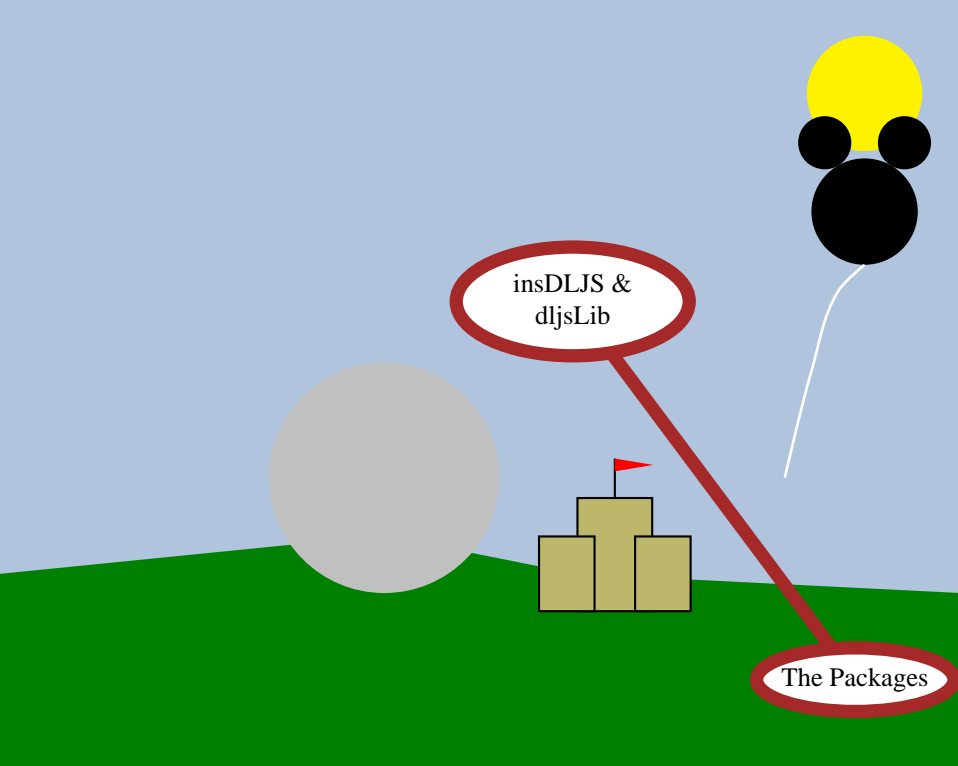


- Exercises
- Applications
- Quizzes (Immediate Response)
- Question Types
- Applications
- Quizzes (Delayed Response)
- Question Types
- Applications
 - ▶ Online tutorials
 - ▶ Online practice problems
 - ▶ **Online Assessment**

Exerquiz

The Packages





insDLJS &
dljsLib

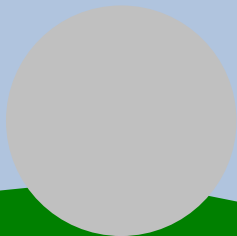
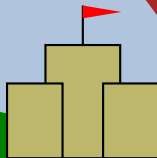
The Packages

- insDLJS:

Creates a \LaTeX environment for writing JavaScript to the document level of a PDF document.

insDLJS &
dljsLib

The Packages



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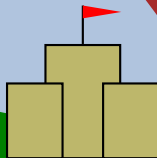
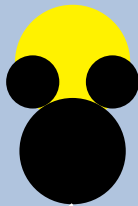
Creates a \LaTeX environment for writing JavaScript to the document level of a PDF document.

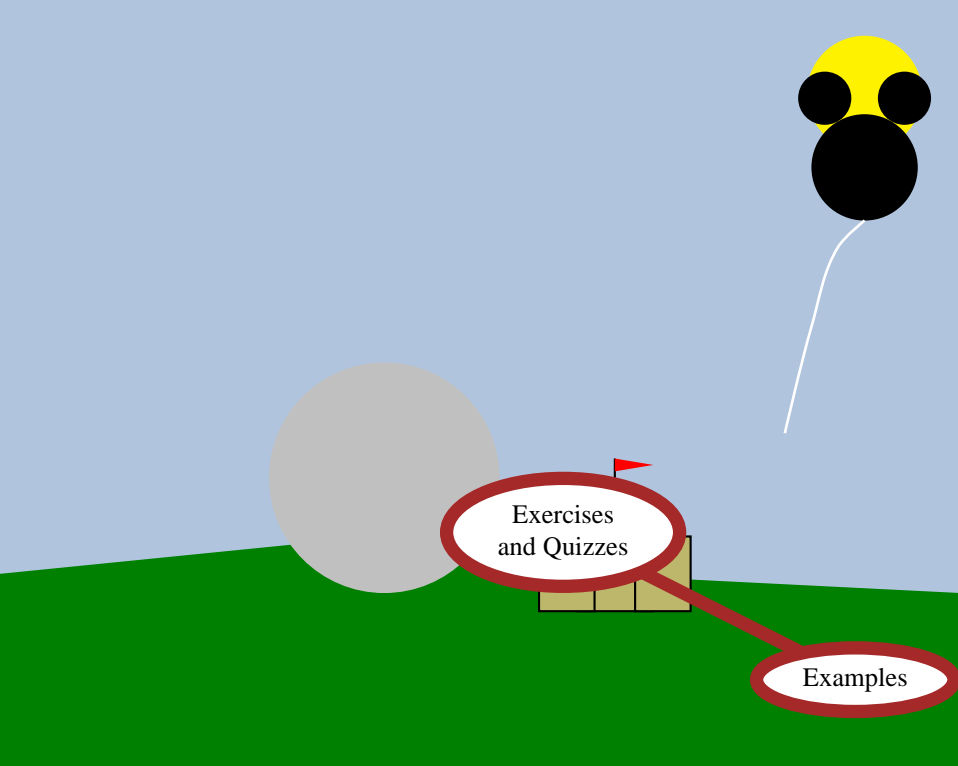
- dljsLib:

A library of JavaScript functions. These functions can be plugged in to Exerquiz to modify how questions are processed.

insDLJS &
dljsLib

The Packages





Exercises
and Quizzes

Examples

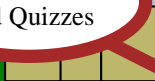
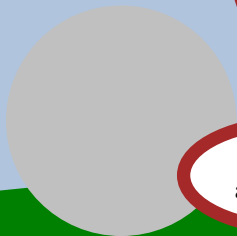
• Exercises



1 2 3

Exercises
and Quizzes

Examples



- Exercises



- Quizzes (Immediate Response)



Exercises
and Quizzes

Examples



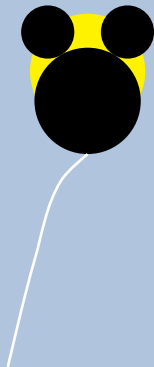
- Exercises



- Quizzes (Immediate Response)



- Quizzes (Delayed Response)



Exercises
and Quizzes

Examples

- Exercises



- Quizzes (Immediate Response)




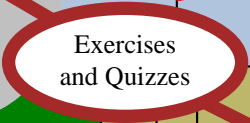
- Quizzes (Delayed Response)




- Online Assessment

Flat DB:  **1** **2**

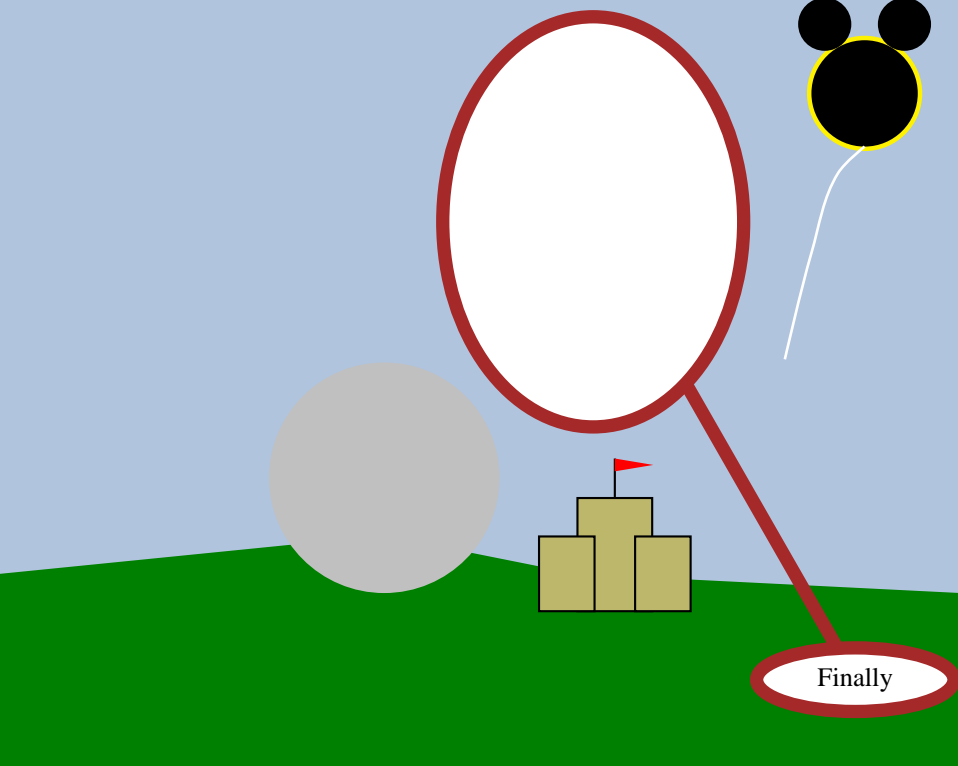
Relational DB:  **1** **2**



Exercises
and Quizzes



Examples



Finally