

# REQUEST FOR INFORMATION: ADAPTIVE LEARNING COURSEWARES

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[INSERT CONTACT PERSON or INSTITUTION]

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## PROVIDER INFORMATION

Please provide the requested identifying information:

Company Name:

Product:

Your Name:

Your Title:

Preferred Email:

Preferred Phone:

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## COURSEWARE AVAILABILITY

Of the following courses, for which do you have courseware?  
Please select all that apply.

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

For those courses for which you have available courseware, is the courseware available now? If not, when would be the estimated time of delivery?

- Available Now
- Courseware will be available in: \_\_\_\_\_

If you do not have available courseware for one (or more) of the courses listed above, what is the typical timeframe for development and delivery of a new courseware?

Do you have the resources (staff, time) to take on developmental projects at this time?

- Yes. If yes, please explain how you are equipped to take on developmental projects:  
\_\_\_\_\_
- No

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If you offer a courseware in [Course Name], please identify the content source (textbook, open educational resources, etc.) for your courseware.

- Content Source(s): \_\_\_\_\_
- Currently No Available Courseware

If you offer a courseware in [Course Name], please identify the content source (textbook, open educational resources, etc.) for your courseware.

- Content Source(s): \_\_\_\_\_
- Currently No Available Courseware

If you offer a courseware in [Course Name], please identify the content source (textbook, open educational resources, etc.) for your courseware.

- Content Source(s): \_\_\_\_\_
- Currently No Available Courseware

If you offer a courseware in [Course Name], please identify the content source (textbook, open educational resources, etc.) for your courseware.

- Content Source(s): \_\_\_\_\_
- Currently No Available Courseware

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## QUALITY OF COURSEWARE

What are the academic credentials of the authors and content creators used in your coursewares?

What are the academic credentials of the designers of the adaptive learning software?

Many publisher's supplemental materials (such as test banks) are so poor that they are not usable. Why is your adaptive piece going to be better?

Have the authors and designers actually used the software in courses themselves? If so, please explain:

Yes. (Please provide explanation in space provided).

\_\_\_\_\_

No

Please describe your quality assurance process:

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## ADAPTIVITY

In the *EDUCAUSE Review* article, "Adaptive Learning Systems: Surviving the Storm," Lou Pugliese (2016) outlines four types of adaptive systems. Please identify which adaptive system you think best matches your model.

### [Adaptive Learning Systems: Surviving the Storm](#)

- Machine-Learning-Based Adaptive System
- Advanced Algorithm Adaptive System
- Rules-Based Adaptive System
- Decision Tree Adaptive System

Does the courseware adapt the presentation of content based on learner-declared goals?

- Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

- No

Does the courseware adapt the complexity or presentation of content based on a learner pre-test?

- Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

- No

Does the courseware adapt the complexity or presentation of content based on a learner's affective state (confidence indicator)?

- Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

- No

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Does the courseware adapt the scope of instruction (breadth and depth of content) based on more inputs than a single correct response to the previous item or activity?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can educators or course designers override or change the parameters of adaptive protocols?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Other than the above listed measures, please explain how your product is adaptive:

Which adaptive courseware platforms do you consider to be your closest competitors?

With respect to adaptivity, what are the strengths and weaknesses of your courseware compared to those of your closest competitors?

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## COLLABORATION

Are learners prompted to act as a tutor or mentor?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can learners interact with peers during learning activities?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Are learners prompted to provide or receive feedback on or from peers?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can educators or mentors and learners initiate contact with one another within the courseware interface?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Other than the above listed measures, please explain how your product is adaptive with respect to collaboration:

With respect to collaboration, what are the strengths and weaknesses of your courseware compared to those of your closest competitors?



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## CUSTOMIZATION & CONFIGURATION

Can educators or course designers change learning content and assessments (i.e., add, edit, re-order, delete)?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can educators or course designers change learning objectives or outcomes (i.e., add, edit, re-order, delete)?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Is there a collection of supplemental content or assessments for educators or course designers to use?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Other than the above listed measures, please explain how your product is adaptive with respect to customization and configuration:

With respect to customization and configuration, what are the strengths and weaknesses of your courseware compared to those of your closest competitors?

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## DEPTH OF INTERACTION

Are game-based activities or motivational strategies (e.g., competitions, rewards, level-based experiences) a part of the learner experience?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Do learners need to make predictions or explain their reasoning in order to complete one or more learning activities?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Are learners prompted to recall or apply prior learning?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Does the courseware offer varying means of learner action and expression (e.g., physical actions, use of multiple media, interactive objects, and executive functions)?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Do learners have the option to select from different representations of the same content in learning modules?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

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Does the courseware UI expose learning content or assessments from third party APIs?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Other than the above listed measures, please explain how your product is adaptive with respect to depth of interaction:

With respect to depth of interaction, what are the strengths and weaknesses of your courseware compared to those of your closest competitors?

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## FEEDBACK

Do educators or mentors receive notifications of learner performance that could trigger an intervention?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Do learners receive gradation (or multiple-try) feedback within a single activity?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Does the learner receive diagnoses of likely missing skills or knowledge components?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can an educator track the progress of student cohorts and individual students in a single view?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can a learner track one's progress and remaining tasks in the same interface?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

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Do learners receive feedback on socio-emotional factors related to learning (e.g., persistence)?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Do authors and content creators receive feedback on how well a chapter or piece of content worked? In other words, is there data collection on the readability, accessibility, and functionality of content and is that data relayed to authors or content creators so improvements may be made?

Yes. *If you answer yes, please describe how your product collects and communicates this data:*

\_\_\_\_\_

No

Please identify and describe the different types of reports/feedback available to educators when tracking student progress and learning? Where possible, give examples of how these reports/feedback can be used to provide targeted interventions to student learners.

Other than the above listed measures, please explain how your product is adaptive with respect to feedback:

With respect to feedback, what are the strengths and weaknesses of your courseware compared to those of your closest competitors?

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## LEARNER AUTONOMY

Are learners prompted for self-reflection and/or evaluation?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can learners markup content and save these markups to support their own learning?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Do learners have on-demand access to assessments, simulations, or interactive objects that are not a required element of planned instruction?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can learners share their work or evidence of learning outside of the course (e.g., digital badges, e-portfolio artifacts)?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can learners associate external resources with assessments, learning content, objectives, or outcomes in the courseware?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

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Other than the above listed measures, please explain how your product is adaptive with respect to learner autonomy:

With respect to learner autonomy, what are the strengths and weaknesses of your courseware compared to those of your closest competitors?

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## MEASUREMENT & STRUCTURE

Do one or more modules include a pre-test that results in feedback to the learner?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Is there content that is intended for use as a summative assessment and is explicitly associated with the course's learning objectives?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Have learning outcomes been mapped to learning objectives?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Are there assessments in most or all learning modules?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Are there measurements of a learner's confidence or disposition in relation to learning?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No



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Does the courseware return grade and other performance data to the LMS and other enterprise systems as configured?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Does the courseware have the ability to instrument (or generate) new or alternate assessment items or activities based on learner experiences or performance?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Other than the above listed measures, please explain how your product is adaptive with respect to measurement and structure:

With respect to measurement and structure, what are the strengths and weaknesses of your courseware compared to those of your closest competitors?

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## SCAFFOLDING

Are there hints or prompts that support learners during learning activities or assessment items?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Are there prompts for mental practice?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Are there narrative structures that act as guidelines or organizers of learning activities?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Are learners prompted to generate explanations of how they have approached an activity?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Does the courseware incorporate socio-emotional interventions (e.g., growth mindset, to overcome a stereotype threat)?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

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Other than the above listed measures, please explain how your product is adaptive with respect to scaffolding:

With respect to scaffolding, what are the strengths and weaknesses of your courseware compared to those of your closest competitors?

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## USABILITY

Are there design features or assets to help users orient themselves with the interface and software in general?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Can a learner save one's partial progress within a module and return to that point in a subsequent session?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Is there a glossary of terms specific to the learning content of the course?

Yes. *If you answer yes, please describe how your product is adaptive by this measure:*

\_\_\_\_\_

No

Other than the above listed measures, please explain how your product is adaptive with respect to usability:

With respect to usability, what are the strengths and weaknesses of your courseware compared to those of your closest competitors?

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## **COST**

Describe your pricing structure. (Is there a separate cost for your platform and another cost for the courseware?)

Is there a refund policy if the student drops the course?

If a student drops the course and then decides to retake the course, will the courseware be good for multiple semesters (with a one-time purchase)?

If a student fails and retakes the course, will they be able to use the courseware again (with a one-time purchase)?

Do you have a lifetime access option? If so, please explain the parameters of that option:

Is there also a print option available?

- Yes
- No

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## SUPPORT

Is helpdesk support available for instructors?

Yes. *If yes, please describe the type of helpdesk and technical support available to instructors.*

\_\_\_\_\_

No

Is helpdesk support available for students?

Yes. *If yes, please describe the type of helpdesk and technical support available to students.*

\_\_\_\_\_

No

Is helpdesk support available for technical staff?

Yes. *If yes, please describe the type of helpdesk and technical support available to university technical staff.*

\_\_\_\_\_

No

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## DATA ACCESS & OWNERSHIP

Where does the data generated by student users reside? Where is it stored and who owns it?

Can institutions access student data, assessment data, and other activity data for all courses/sections belonging to their institution in order to perform an analysis of student performance?

Yes. *If yes, please explain the process by which [University Name] may access the data.*

\_\_\_\_\_

No

What experience do you have working on a university-led project involving the implementation of educational technologies? (Please provide the names of institutions that you are currently or have previously worked with).

If you have not worked on such a project, please explain how you are equipped (staff, resources, etc.) to work on such a project.

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## CONTENT MANAGEMENT

Please mark 'Yes' or 'No' to indicate if your courseware has the following content management capabilities:

	Yes	No
Resource sharing among educators, mentors, or course designers	<input type="checkbox"/>	<input type="checkbox"/>
Batch file loads	<input type="checkbox"/>	<input type="checkbox"/>
Support of multimedia content in assessment items	<input type="checkbox"/>	<input type="checkbox"/>
Content discovery and sharing among courses	<input type="checkbox"/>	<input type="checkbox"/>
Learner portfolio tools	<input type="checkbox"/>	<input type="checkbox"/>
Ability to add ALT tags for uploaded media	<input type="checkbox"/>	<input type="checkbox"/>
Ability to upload SCORM learning objects	<input type="checkbox"/>	<input type="checkbox"/>
Combination of templates and customizable interactions	<input type="checkbox"/>	<input type="checkbox"/>
Ability to parse uploaded files into learning or assessment content	<input type="checkbox"/>	<input type="checkbox"/>
More than 1GB of storage per student/course	<input type="checkbox"/>	<input type="checkbox"/>
Integrated cloud storage for end users to manage	<input type="checkbox"/>	<input type="checkbox"/>



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## COURSE ADMINISTRATION

Please mark 'Yes' or 'No' to indicate if your courseware has the following course administration capabilities:

	Yes	No
Online submission of assignments	<input type="checkbox"/>	<input type="checkbox"/>
Flexible group assignments (e.g., the ability to assign work specific to individuals)	<input type="checkbox"/>	<input type="checkbox"/>
Calendar links to assignments	<input type="checkbox"/>	<input type="checkbox"/>
Calendar standard protocol compliance	<input type="checkbox"/>	<input type="checkbox"/>
Real-time progress monitoring during assessments	<input type="checkbox"/>	<input type="checkbox"/>
Ability to tag content as required or optional	<input type="checkbox"/>	<input type="checkbox"/>
Ability to generate or analyze a syllabus based on collected course content	<input type="checkbox"/>	<input type="checkbox"/>
Ability to support faculty, mentors, or course designers interacting in relation to shared students	<input type="checkbox"/>	<input type="checkbox"/>

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## REPORTING

Please mark 'Yes' or 'No' to indicate if your courseware has the following reporting capabilities:

	Yes	No
Single views of learner performance or grades among courses	<input type="checkbox"/>	<input type="checkbox"/>
Support of standards-or rubric-based grading	<input type="checkbox"/>	<input type="checkbox"/>
Competency-based reporting	<input type="checkbox"/>	<input type="checkbox"/>
Ability to view student workload	<input type="checkbox"/>	<input type="checkbox"/>
Views of course, program, and institutional information in the same software systems	<input type="checkbox"/>	<input type="checkbox"/>
Reports on learner or educator evaluations of course content or administration	<input type="checkbox"/>	<input type="checkbox"/>
Reports on usage or performance of external and integrated software systems	<input type="checkbox"/>	<input type="checkbox"/>
Reports on performance of curriculum objects by author or source	<input type="checkbox"/>	<input type="checkbox"/>
Ability to add data from external systems and create single-view reports	<input type="checkbox"/>	<input type="checkbox"/>

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## ACCESSIBILITY

Please mark 'Yes' or 'No' to indicate if your courseware has the following accessibility capabilities:

	Yes	No
Is media closed captioned?	<input type="checkbox"/>	<input type="checkbox"/>
Are text transcripts also provided?	<input type="checkbox"/>	<input type="checkbox"/>
Screen Reader accessible?	<input type="checkbox"/>	<input type="checkbox"/>
Alternate assessment options (mode of representation)	<input type="checkbox"/>	<input type="checkbox"/>
Alternate assessment options (mode of response)	<input type="checkbox"/>	<input type="checkbox"/>
Ability to download learning content for offline access	<input type="checkbox"/>	<input type="checkbox"/>
Tools for minimizing distractions in the user interface	<input type="checkbox"/>	<input type="checkbox"/>
Alternate language support for UI elements	<input type="checkbox"/>	<input type="checkbox"/>
Alternate language support for some or most learning content	<input type="checkbox"/>	<input type="checkbox"/>

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## BROWSER/OS COMPATIBILITY

Please mark 'Yes' or 'No' to indicate if your courseware has the following browser/OS compatibility capabilities:

	Yes	No
Explicit support of most recent version of Google Chrome	<input type="checkbox"/>	<input type="checkbox"/>
Explicit support of prior versions of Google Chrome	<input type="checkbox"/>	<input type="checkbox"/>
Explicit support of most recent version of Apple Safari	<input type="checkbox"/>	<input type="checkbox"/>
Explicit support of prior versions of Apple Safari	<input type="checkbox"/>	<input type="checkbox"/>
Explicit support of most recent version of Internet Explorer	<input type="checkbox"/>	<input type="checkbox"/>
Explicit support of prior versions of Internet Explorer	<input type="checkbox"/>	<input type="checkbox"/>
Explicit support of most recent version of Mozilla Firefox	<input type="checkbox"/>	<input type="checkbox"/>
Explicit support of prior versions of Mozilla Firefox	<input type="checkbox"/>	<input type="checkbox"/>
Native mobile iOS application	<input type="checkbox"/>	<input type="checkbox"/>
Native mobile android application	<input type="checkbox"/>	<input type="checkbox"/>
Native Windows Mobile application	<input type="checkbox"/>	<input type="checkbox"/>
No browser plugins or extensions required	<input type="checkbox"/>	<input type="checkbox"/>

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## INTEROPERABILITY

Please mark 'Yes' or 'No' to indicate if your courseware has the following interoperability capabilities:

	Yes	No
IMS Global LTI tool provider	<input type="checkbox"/>	<input type="checkbox"/>
IMS Global LTI tool consumer	<input type="checkbox"/>	<input type="checkbox"/>
SCORM compatibility	<input type="checkbox"/>	<input type="checkbox"/>
IMS Capiler Learning Sensor API integration	<input type="checkbox"/>	<input type="checkbox"/>
xAPI Learning Relationship Store	<input type="checkbox"/>	<input type="checkbox"/>
ePUB support	<input type="checkbox"/>	<input type="checkbox"/>
SAML 2.0 Identity Provider or Service Provider	<input type="checkbox"/>	<input type="checkbox"/>
Oauth 2.0 or OpenID ConnectService Provider or	<input type="checkbox"/>	<input type="checkbox"/>
LDAP authentication	<input type="checkbox"/>	<input type="checkbox"/>
LTI 2.x Tool Consumer	<input type="checkbox"/>	<input type="checkbox"/>
LTI 2.x Tool Provider	<input type="checkbox"/>	<input type="checkbox"/>
LTI integration can report grades to LMS gradebook	<input type="checkbox"/>	<input type="checkbox"/>
Integration has the ability to be configured at the system and course level of the LMS	<input type="checkbox"/>	<input type="checkbox"/>

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## PRIVACY & SECURITY

Please mark 'Yes' or 'No' to indicate if your courseware has the following privacy and security capabilities:

	Yes	No
FERPA compliance certification by a third party	<input type="checkbox"/>	<input type="checkbox"/>
US/EU Safe Harbor certification by a third party	<input type="checkbox"/>	<input type="checkbox"/>
Ability to ensure that data will not reside in foreign data centers	<input type="checkbox"/>	<input type="checkbox"/>
Documented disaster recovery procedures	<input type="checkbox"/>	<input type="checkbox"/>
Documented security policies and trainmen programs for vendor staff	<input type="checkbox"/>	<input type="checkbox"/>

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## SCALABILITY

Please mark 'Yes' or 'No' to indicate if your courseware has the following scalability capabilities:

	Yes	No
Documented support of peak concurrency levels	<input type="checkbox"/>	<input type="checkbox"/>
Clustering elasticity (i.e., the ability to add or remove nodes from a distributed data store)	<input type="checkbox"/>	<input type="checkbox"/>
NoSQL data store that supports data model elasticity	<input type="checkbox"/>	<input type="checkbox"/>

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## NOTES

If you have any additional notes or questions, use this space to record them.