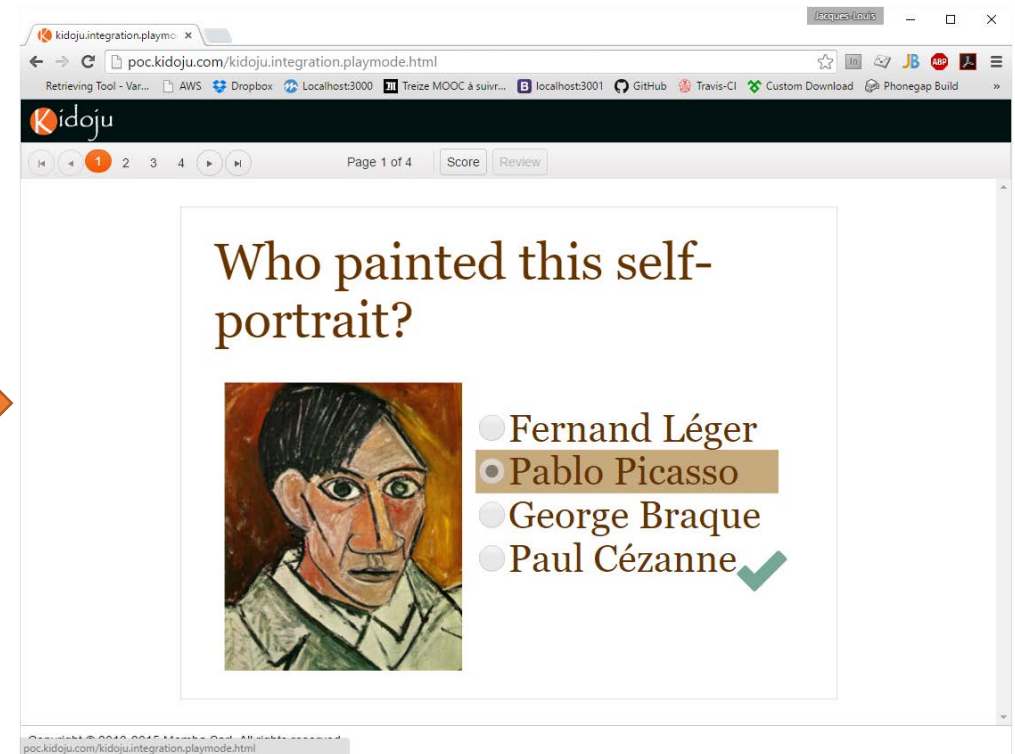
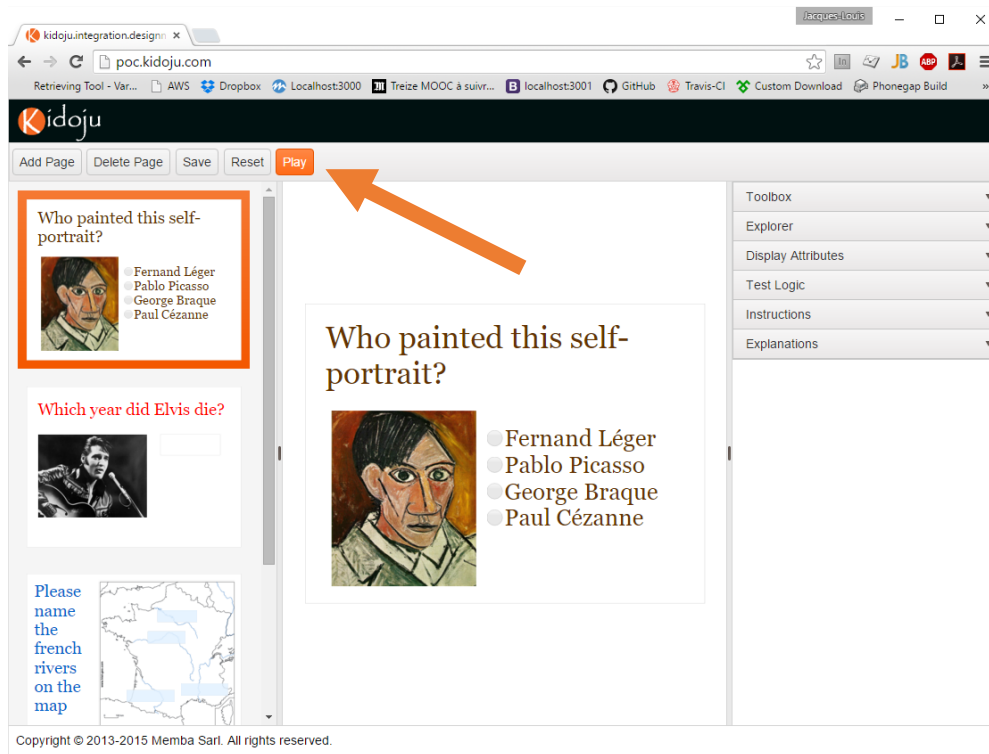


User Guide

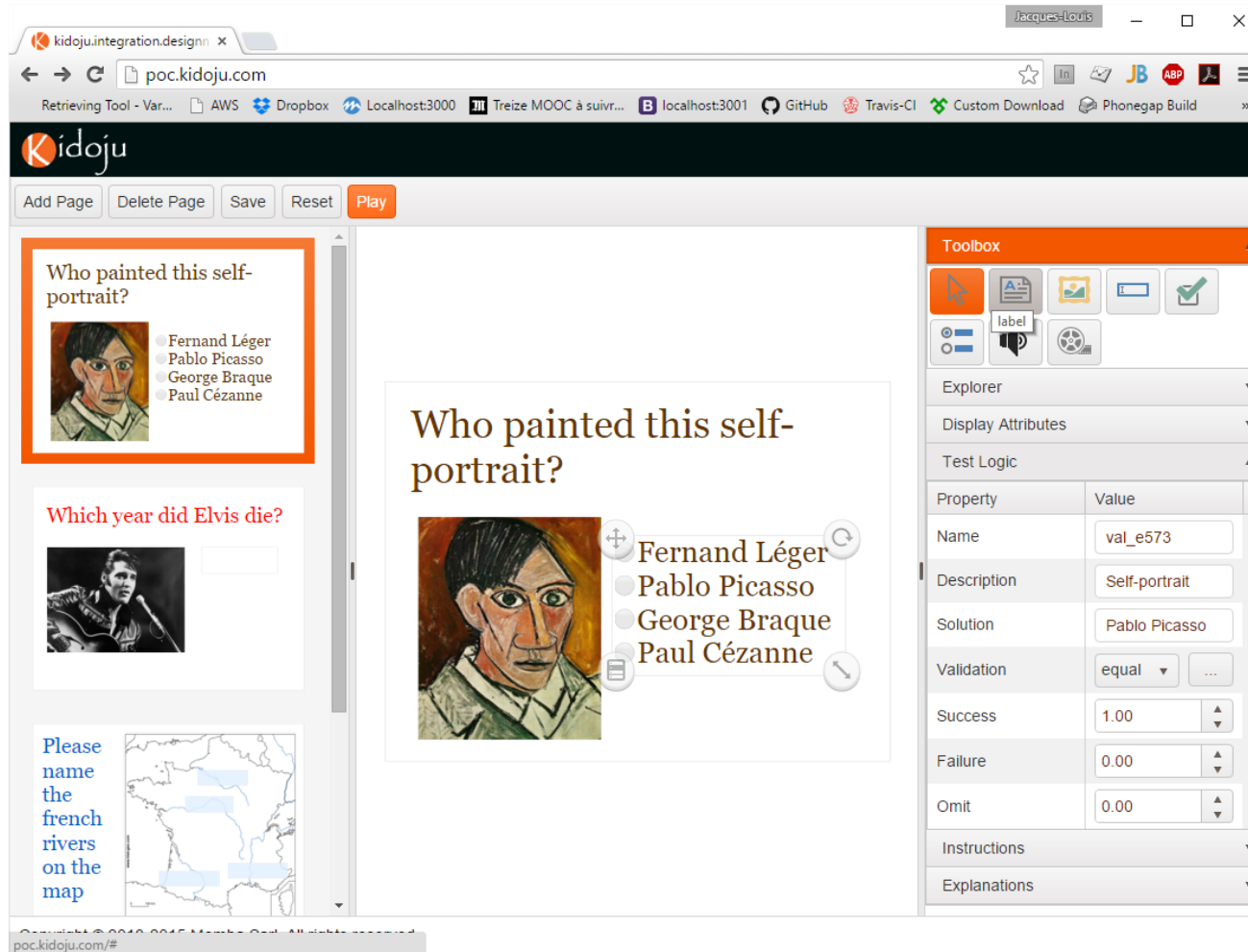
V2015.11.26

Designer and Player (like PowerPoint)

- The designer is used to **design** knowledge tests
- The player is used to **play** (record answers) and **review** (display corrections) knowledge tests

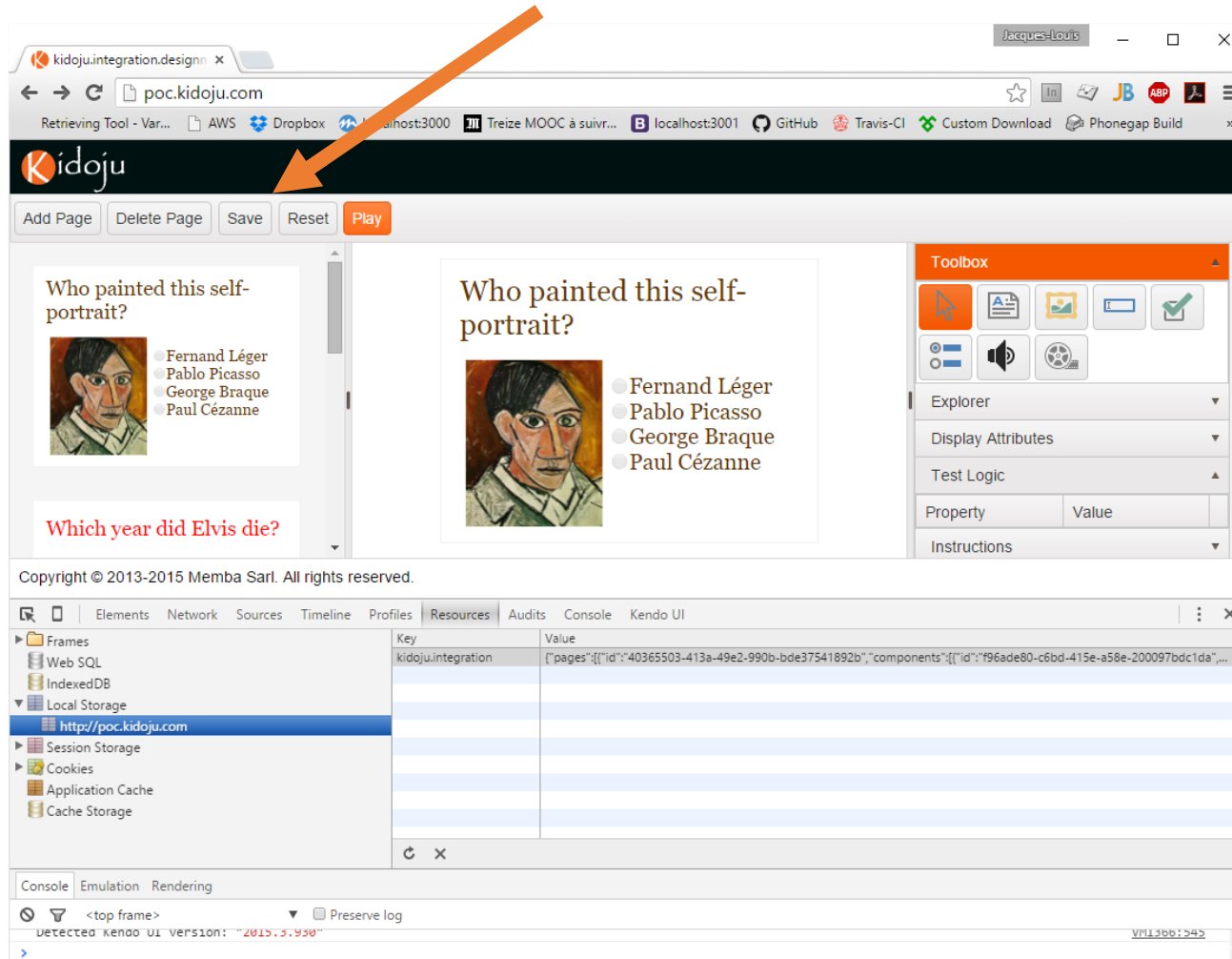


Designing knowledge tests



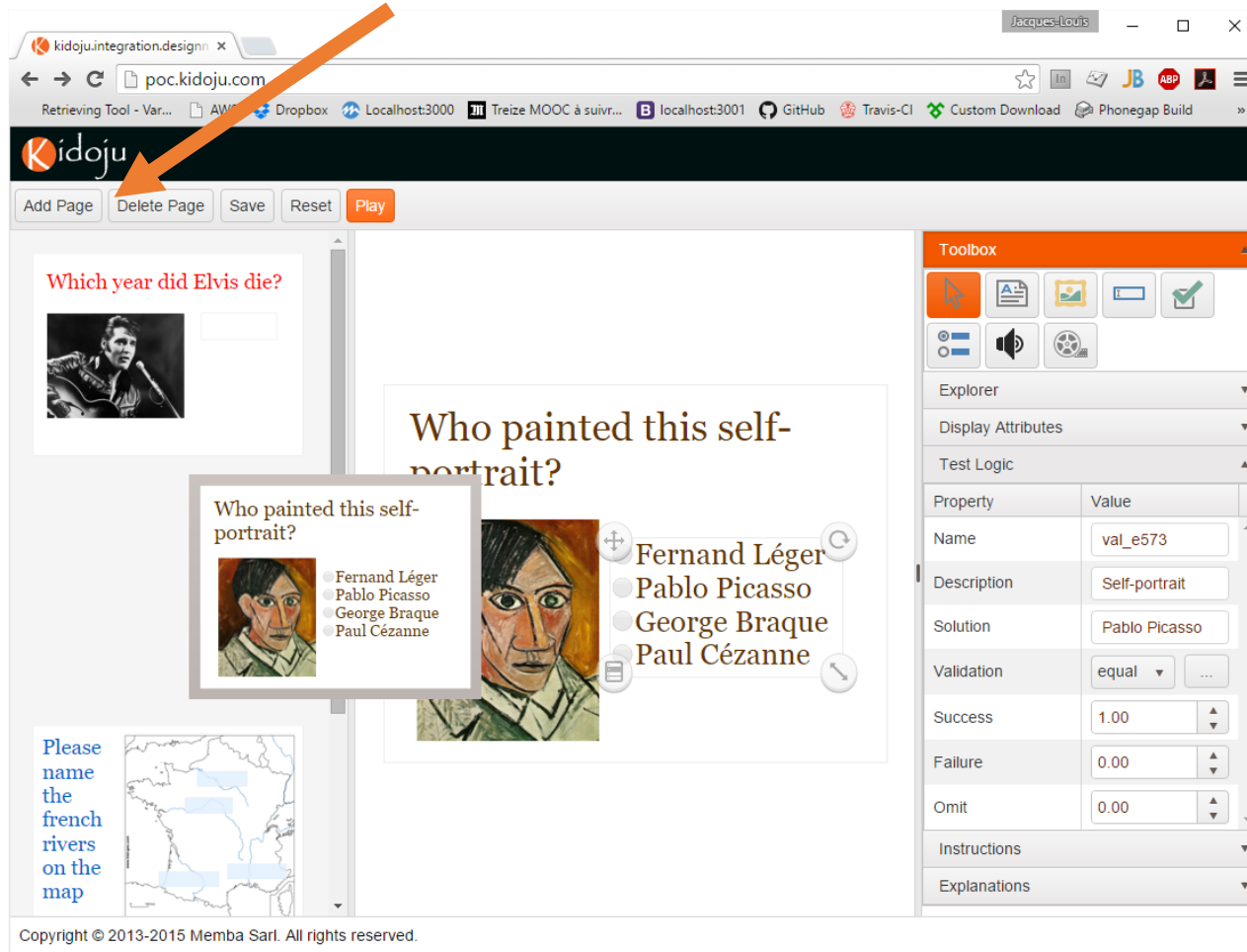
- A **test** is made of **pages**
- A **page** hosts **elements**
- **Elements** are drawn using **tools** from the toolbox
- Elements all have **display attributes** (position, style)
- Some **elements** used to record answers have **test logic** (solution, validation, scores)
- Page **instructions** are displayed when **playing** the test
- Page **explanations** are displayed when **reviewing** the test

WARNING! Saving and resetting

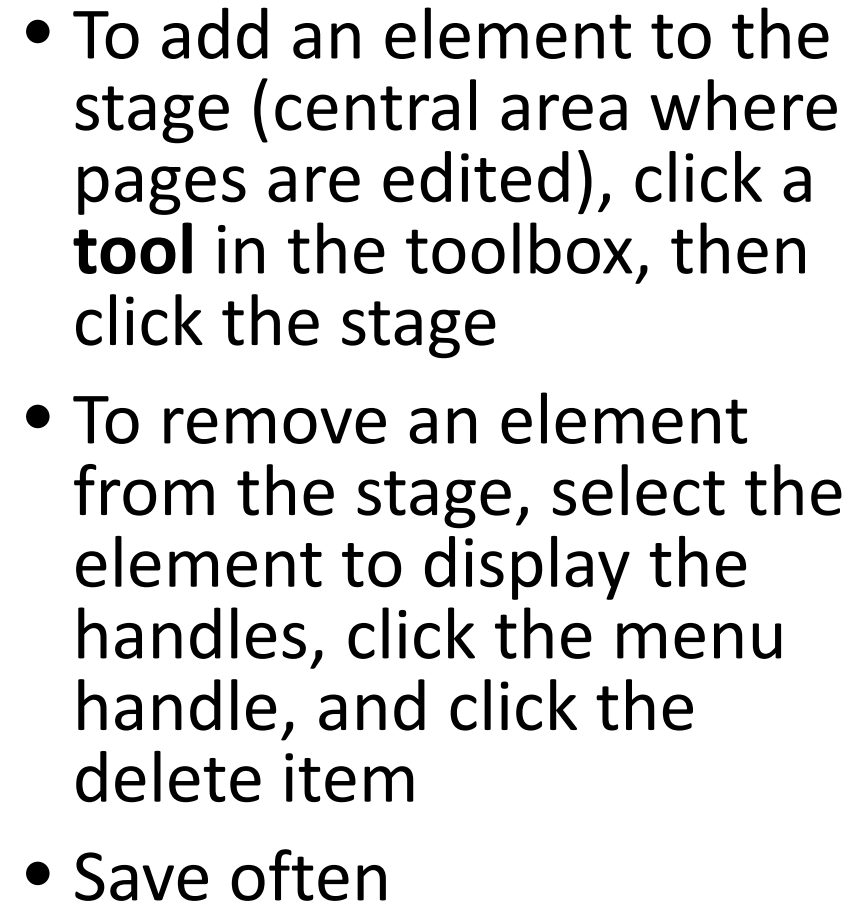


- This is a proof of concept, not a finished product
- There is no authentication and no backend database
- **Save** currently saves in local storage (Press F12 or Cmd + Opt + I to display developer tools in your browser)
- **Reset** simply erases local storage

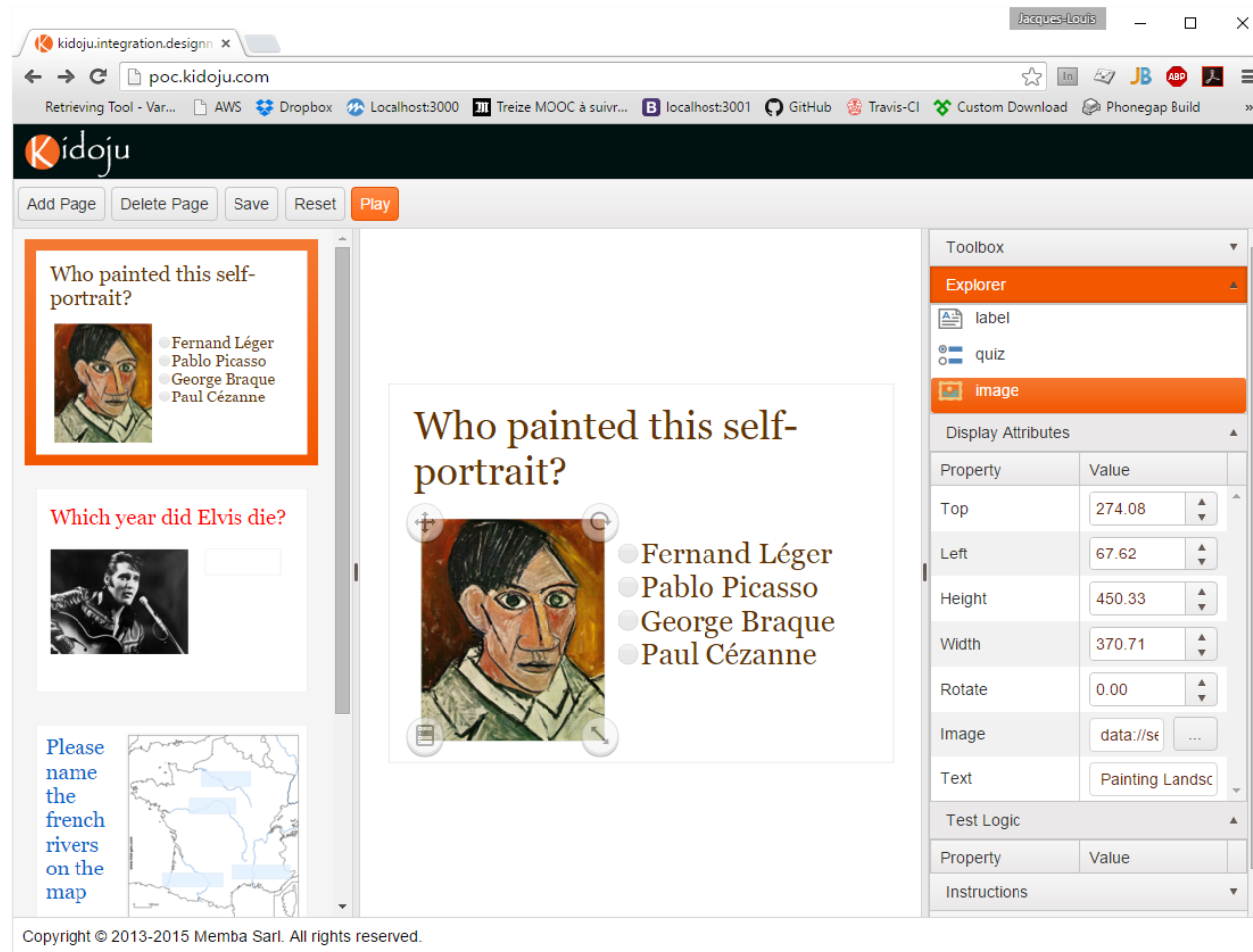
Adding, removing, reordering pages



- Click the **Add Page** button to add a page
- Click the **Delete Page** button to remove a page
- Drag and Drop pages to reorder them

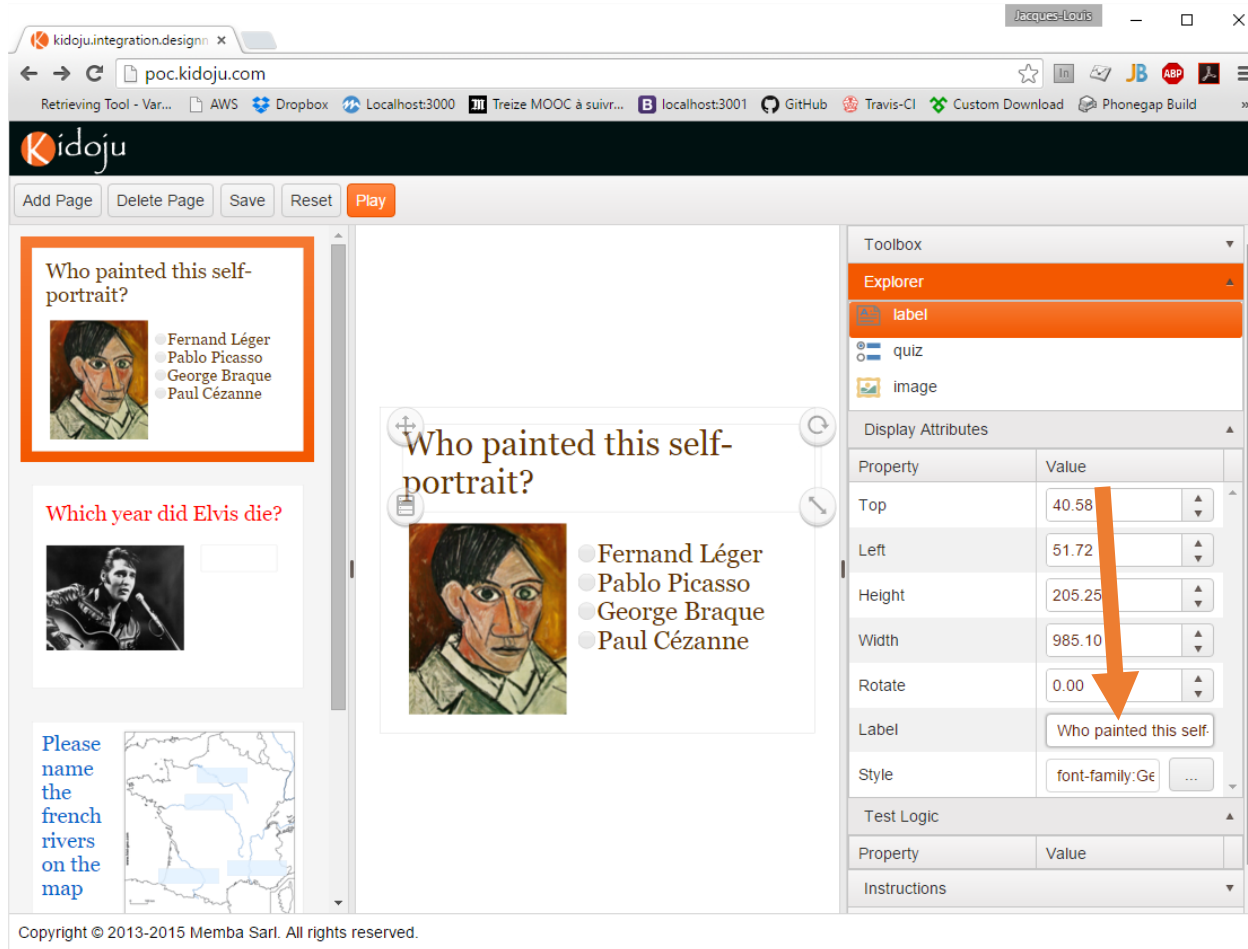


Display attributes: positioning



- Select an element by clicking an instance on the stage or in the explorer
- A selected element has 4 handles: move, rotate, size, menu
- drag the **move** handle or enter a **top** and **left** value
- drag the **rotate** handle or enter a **rotate** angle
- drag the size handle or enter a height and width value

Display attributes: text



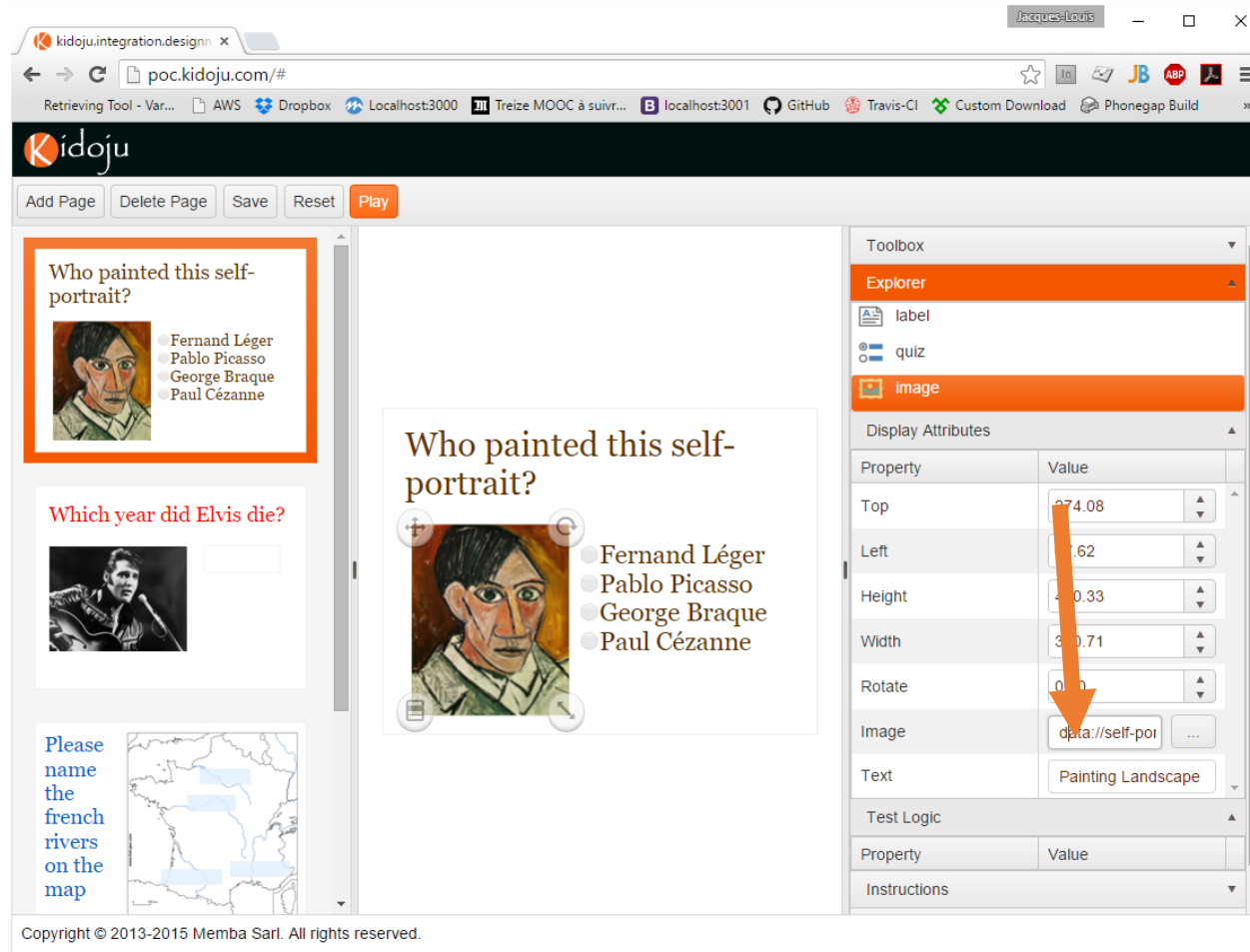
The screenshot shows the Kidoju web application interface. The main canvas displays a quiz question: "Who painted this self-portrait?" with a portrait of Paul Cézanne and a list of artists: Fernand Léger, Pablo Picasso, George Braque, and Paul Cézanne. The right sidebar shows the "Display Attributes" panel for the selected text element, with an orange arrow pointing to the "Label" property set to "Who painted this self-portrait?".

| Property | Value |
|----------|---------------------------------|
| Top | 40.58 |
| Left | 51.72 |
| Height | 205.25 |
| Width | 985.10 |
| Rotate | 0.00 |
| Label | Who painted this self-portrait? |
| Style | font-family:Ge ... |

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- Some tools like the **label** tool display elements with text
- Enter or modify the **text** in the display attributes

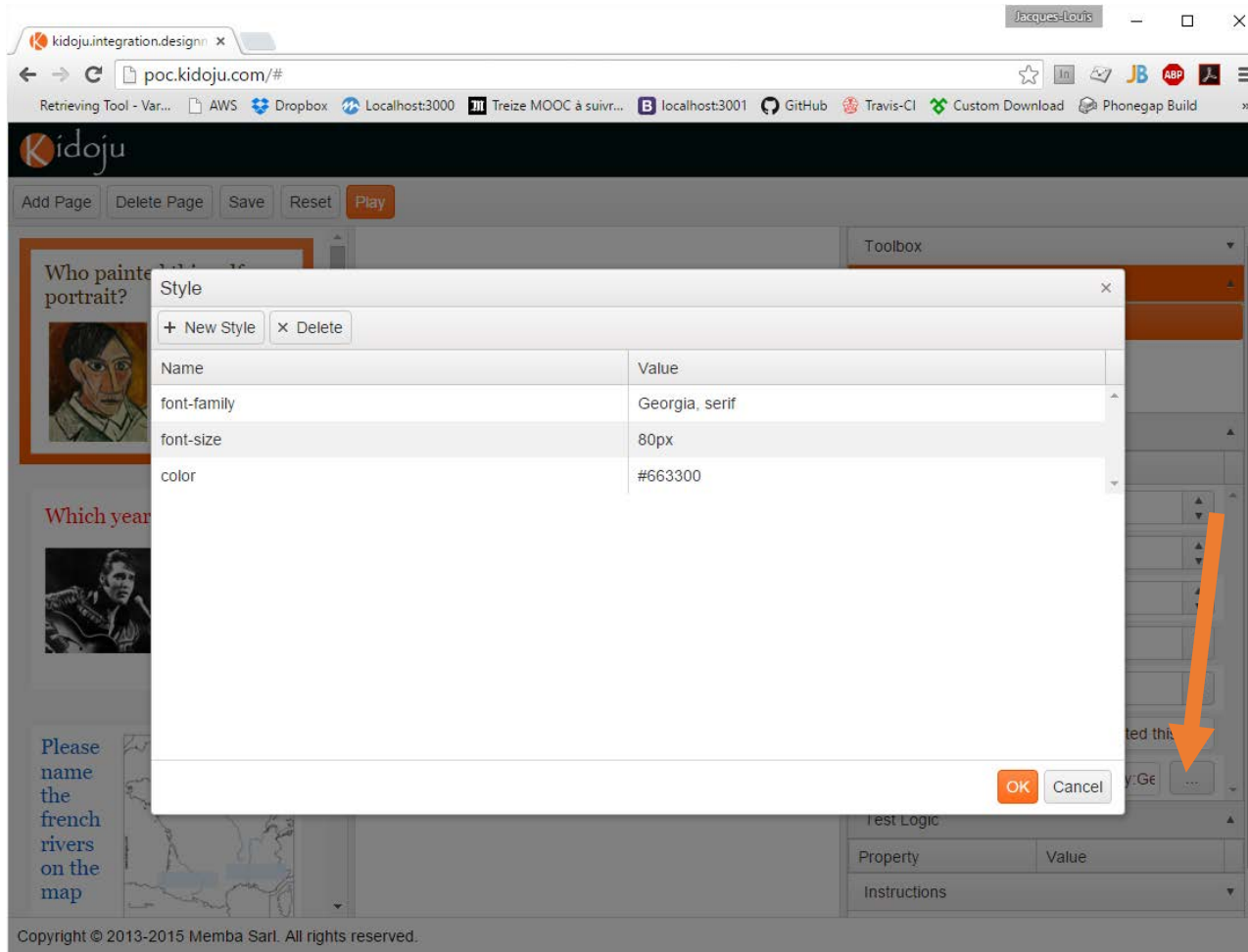
Display attributes: assets



- Some tools like the **image** tool display elements with assets
- An **asset** is a link pointing to a file (image, video, sound)
- The link can be copy/pasted (not recommended)
- Or a [...] button opens an asset manager to upload and select files on our servers (recommended because this is the only guarantee the file will not be removed)

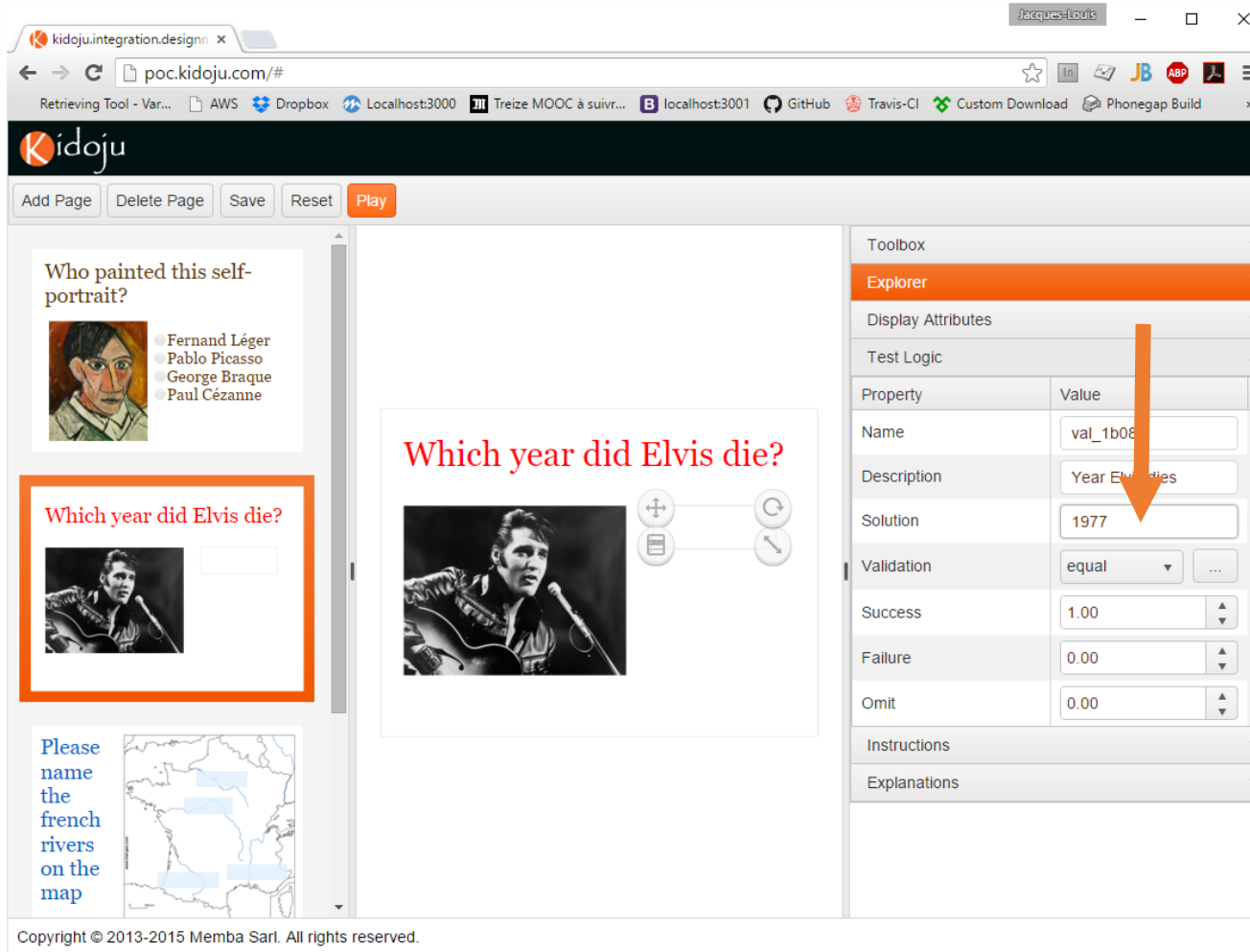
Note: the asset manager is not working in the proof of concept because one needs to be authenticated to access our servers and the proof of concept does not implement authentication

Display attributes: styles



- Most tools display elements with **styles**
- Styles define attributes like colors and borders
- Styles refer to CSS attributes (see <http://www.w3schools.com/css/default.asp>)
- Colors use #RGB (http://www.w3schools.com/tags/ref_colorpicker.asp)

Test Logic: solution



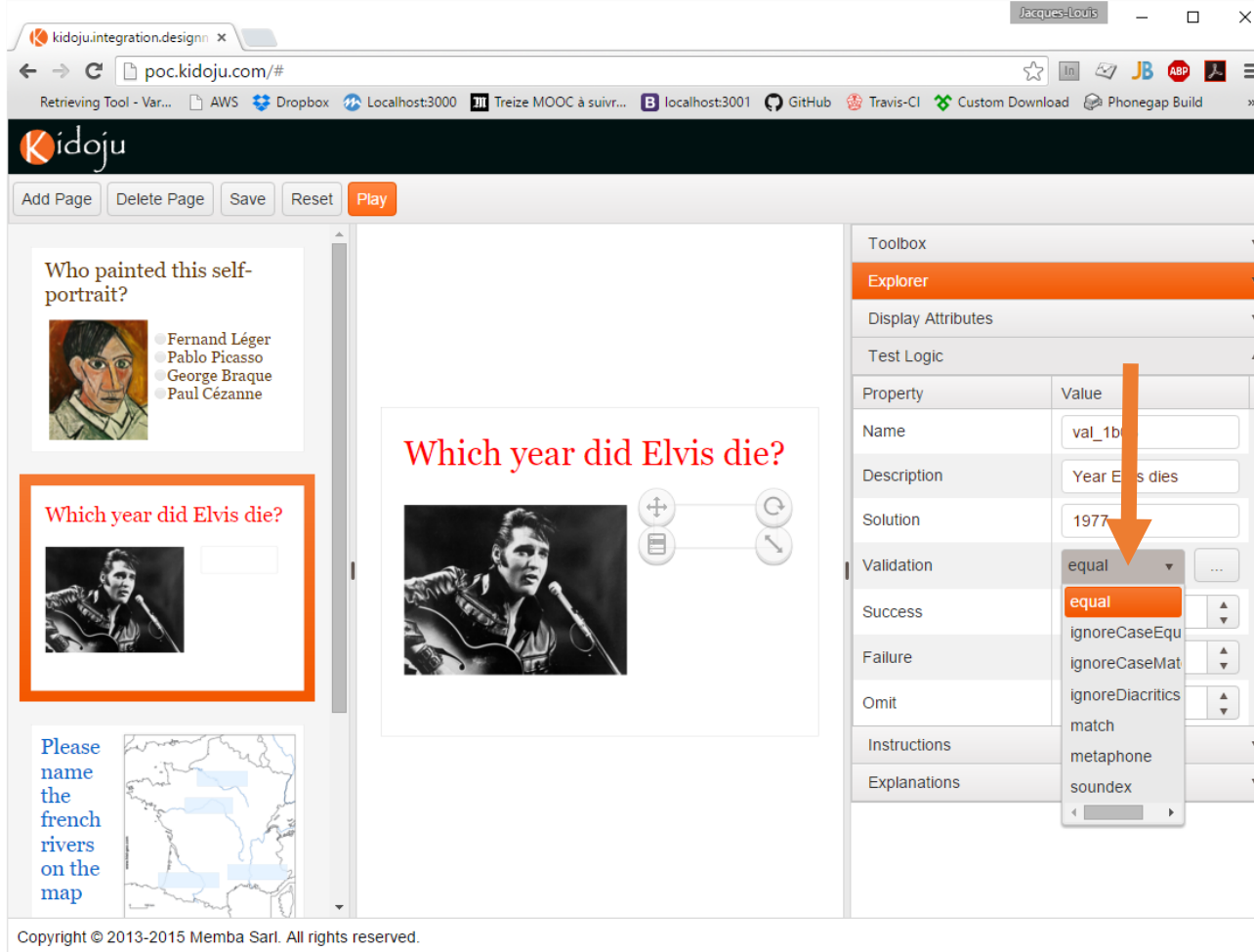
The screenshot shows the Kidoju web application interface. The main area displays a quiz question: "Which year did Elvis die?" with a photo of Elvis Presley. A sidebar on the left shows other quiz questions. A right-hand panel titled "Test Logic" shows configuration for the selected question. The "Test Logic" panel includes a table with the following data:

| Property | Value |
|-------------|-----------------|
| Name | val_1b08 |
| Description | Year Elvis died |
| Solution | 1977 |
| Validation | equal |
| Success | 1.00 |
| Failure | 0.00 |
| Omit | 0.00 |

An orange arrow points from the "Test Logic" panel to the "Solution" field in the quiz editor.

- Some tools like **textbox** and **quiz** display elements implementing **test logic**
- The first component of test logic is the **solution**
- The solution may or may not be used for validation
- The solution is displayed with the score in review mode

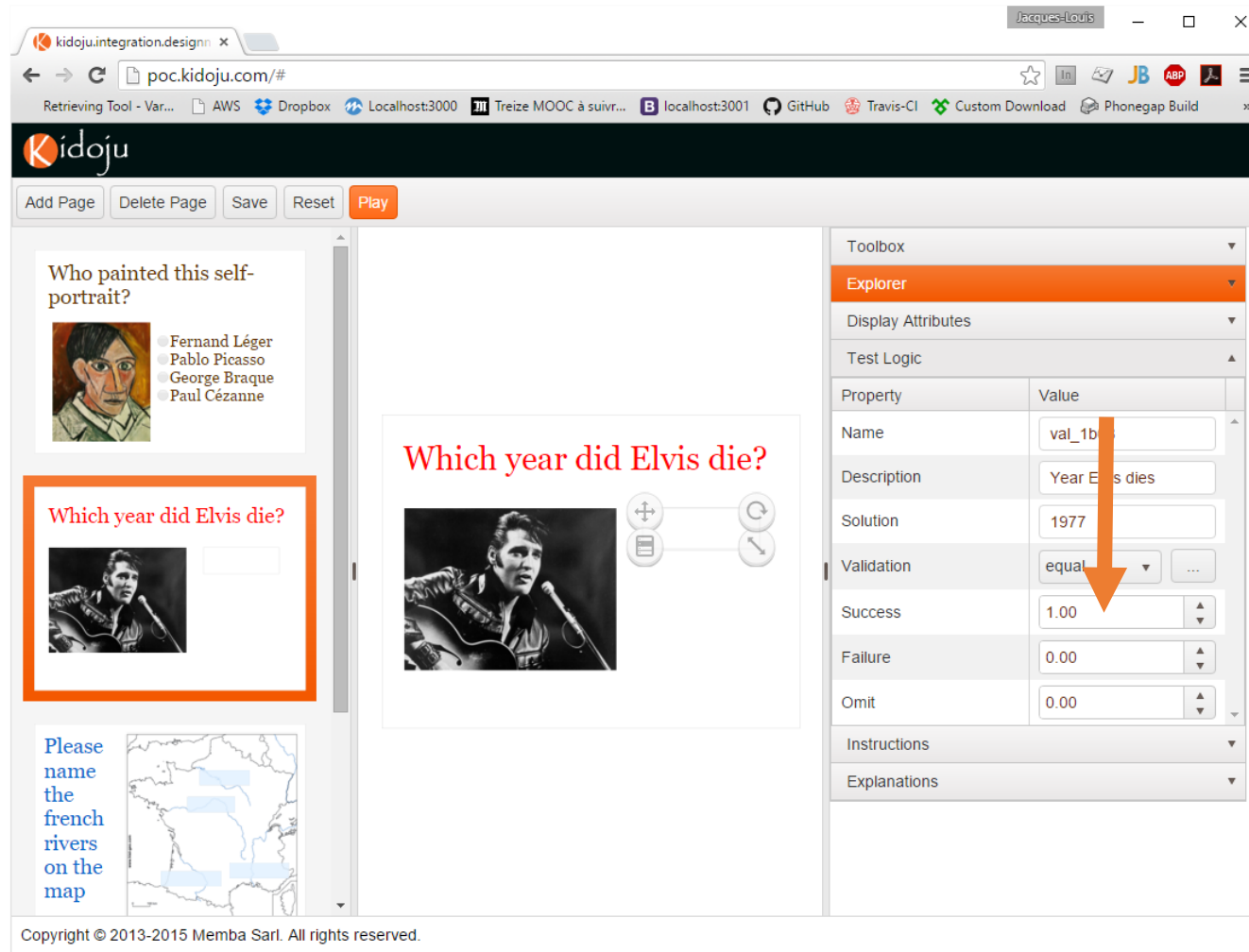
Test Logic: validation



The screenshot shows the Kidoju integration design tool interface. The workspace contains three quiz cards. The first card asks "Who painted this self-portrait?" with a list of artists: Fernand Léger, Pablo Picasso, George Braque, and Paul Cézanne. The second card, highlighted with an orange border, asks "Which year did Elvis die?" with a photo of Elvis and a text input field. The third card asks "Please name the french rivers on the map" with a map. On the right, a "Test Logic" panel is open, showing a table with columns "Property" and "Value". The "Validation" row is selected, and a dropdown menu is open showing various validation formulas like "equal", "ignoreCaseEqu", "ignoreCaseMat", "ignoreDiacritics", "match", "metaphone", and "soundex". An orange arrow points to the "equal" option in the dropdown.

- The second component of test logic is the **validation** formula
- Some generic formulas are listed (equal, match, soundex, ...)
- Generic formulas compare the value entered in **play** mode with the **solution**
- **match** requires a solution that is a regular expression (<http://regexone.com/>)
- The [...] button empowers designers who can code their validation formulas
- There is no limit to the complexity of formulas which can be coded

Test Logic: scores



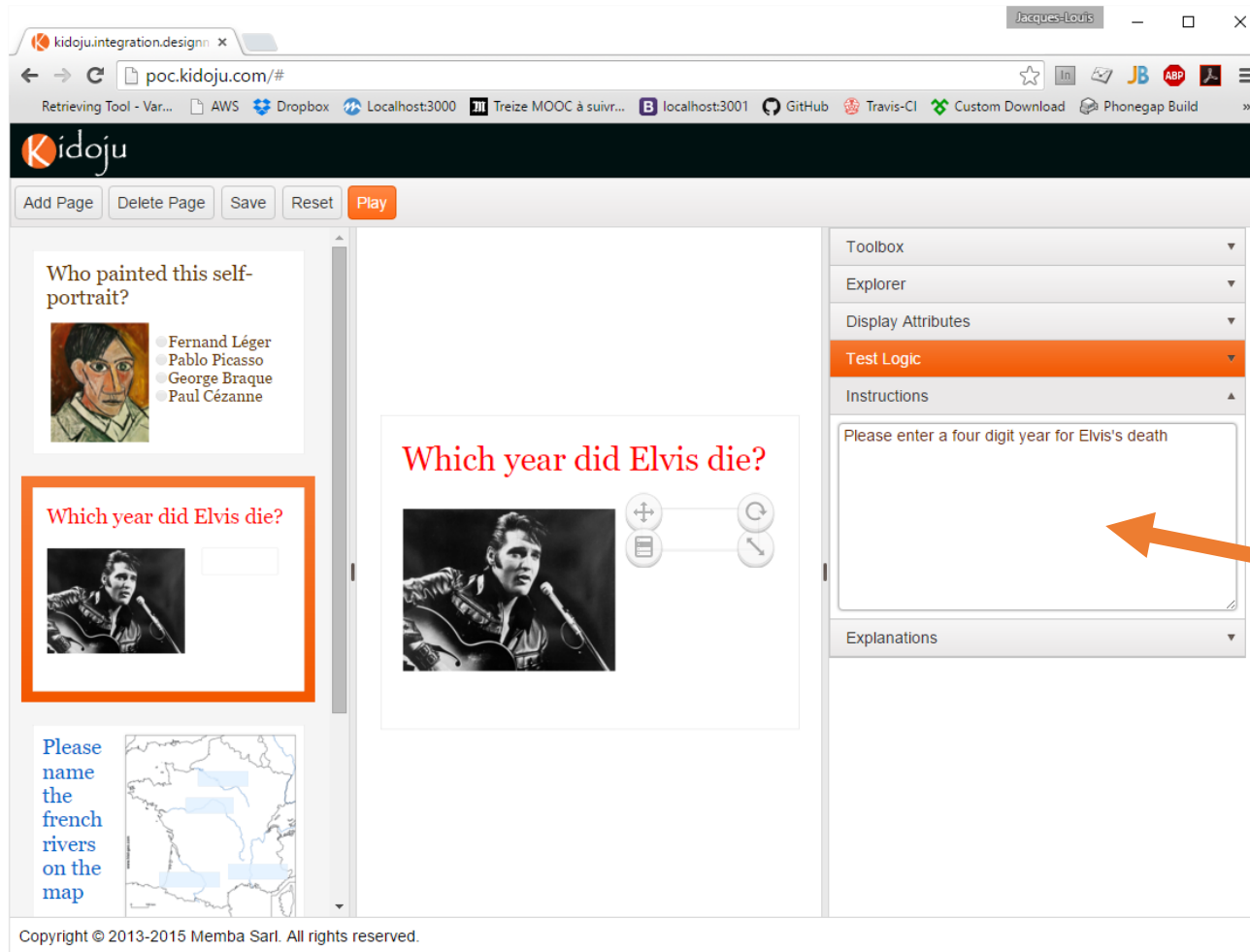
The screenshot shows the Kidoju web application interface. The main area displays a question: "Which year did Elvis die?" with a photo of Elvis Presley. To the left, there are other questions: "Who painted this self-portrait?" and "Please name the french rivers on the map". On the right, the "Test Logic" configuration panel is visible, showing a table with properties and values. An orange arrow points to the "Success" row, which has a value of 1.00.

| Property | Value |
|-------------|-----------------|
| Name | val_1b |
| Description | Year Elvis dies |
| Solution | 1977 |
| Validation | equal |
| Success | 1.00 |
| Failure | 0.00 |
| Omit | 0.00 |

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- The third and final component of test logic is scores
- There are 3 scores for:
 - **Success** (the validation formula return true)
 - **Failure** (the validation formula returns false)
 - **Omit** (the user has not answered the question and the validation formula returns undefined)

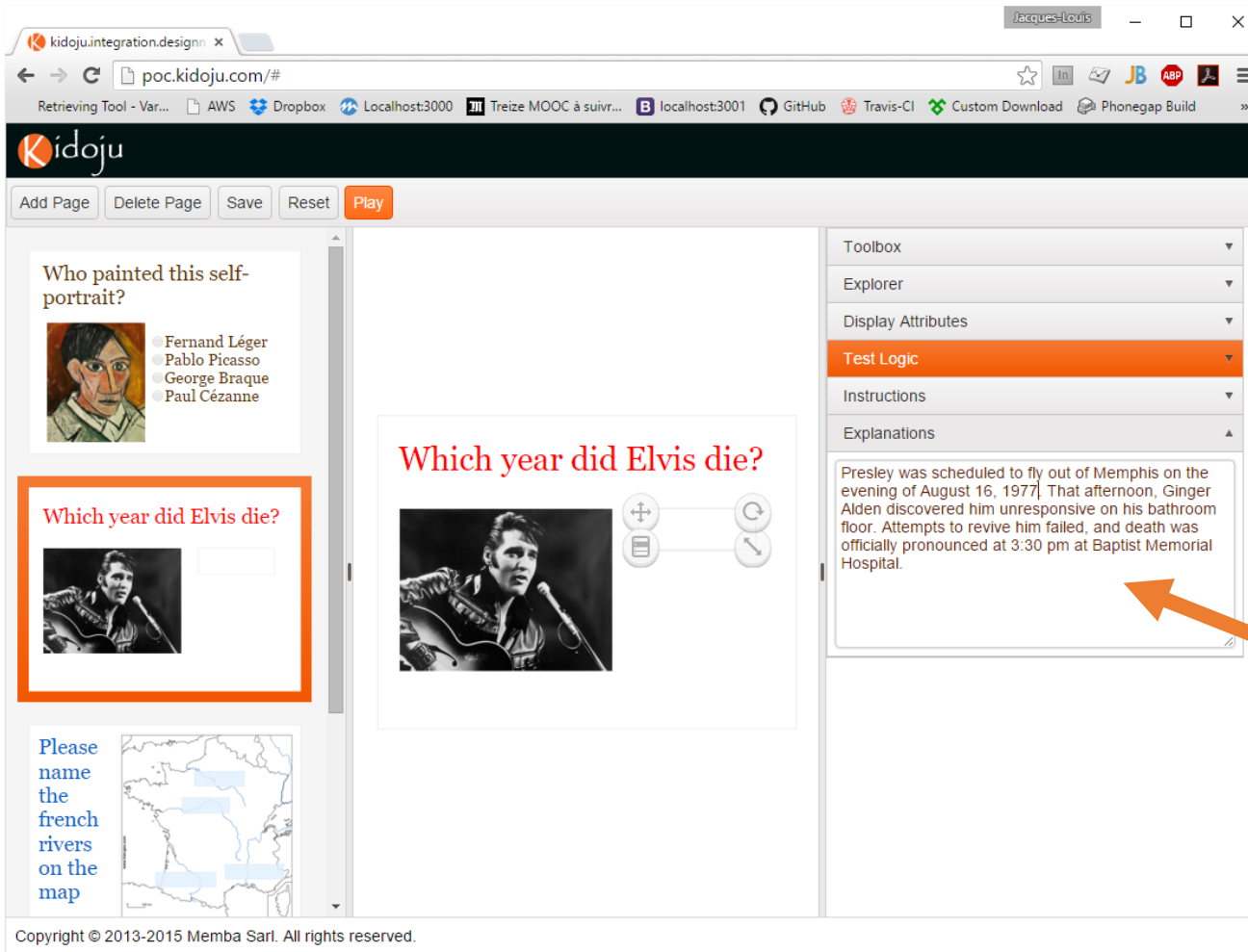
Instructions



- **Instructions** are displayed to help users in play mode (not yet available in the proof of concept)

Explanations

- **Explanations** are displayed to explain the solution in review mode (not yet available in the proof of concept)



The screenshot shows the Kidoju web application interface. The browser address bar displays `poc.kidoju.com/#`. The application has a top navigation bar with the Kidoju logo and buttons for "Add Page", "Delete Page", "Save", "Reset", and "Play".

The main content area displays three quiz questions:

- Who painted this self-portrait?** (Accompanied by a self-portrait of Paul Cézanne and a list of artists: Fernand Léger, Pablo Picasso, George Braque, Paul Cézanne).
- Which year did Elvis die?** (Accompanied by a photo of Elvis Presley and a text input field).
- Please name the french rivers on the map** (Accompanied by a map of France with blue rectangles indicating river locations).

On the right side, there is a sidebar with a menu containing "Toolbox", "Explorer", "Display Attributes", "Test Logic" (highlighted in orange), "Instructions", and "Explanations". The "Explanations" panel is open, showing the following text:

Presley was scheduled to fly out of Memphis on the evening of August 16, 1977. That afternoon, Ginger Alden discovered him unresponsive on his bathroom floor. Attempts to revive him failed, and death was officially pronounced at 3:30 pm at Baptist Memorial Hospital.

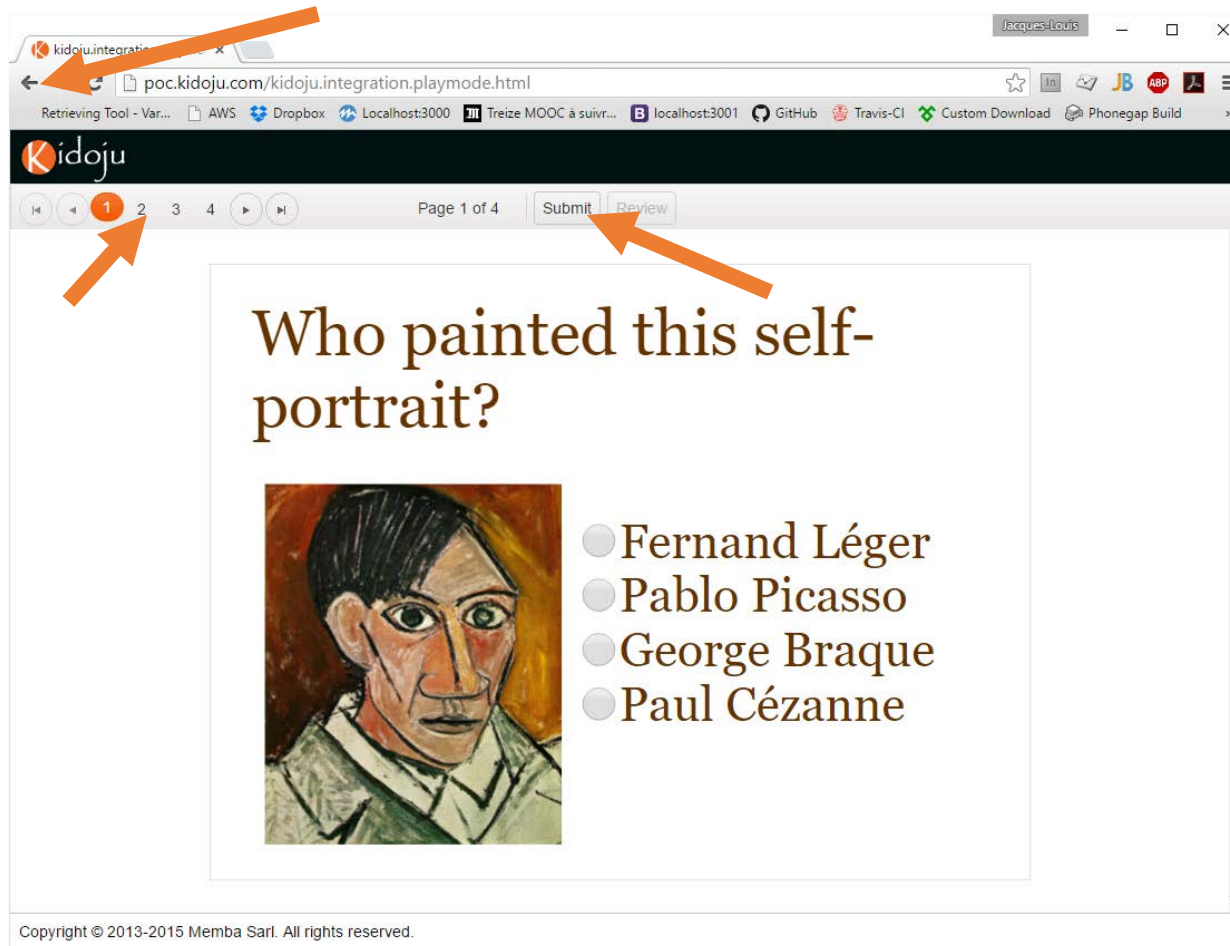
An orange arrow points from the "Explanations" text to the "Which year did Elvis die?" question area.

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BEWARE before playing a test

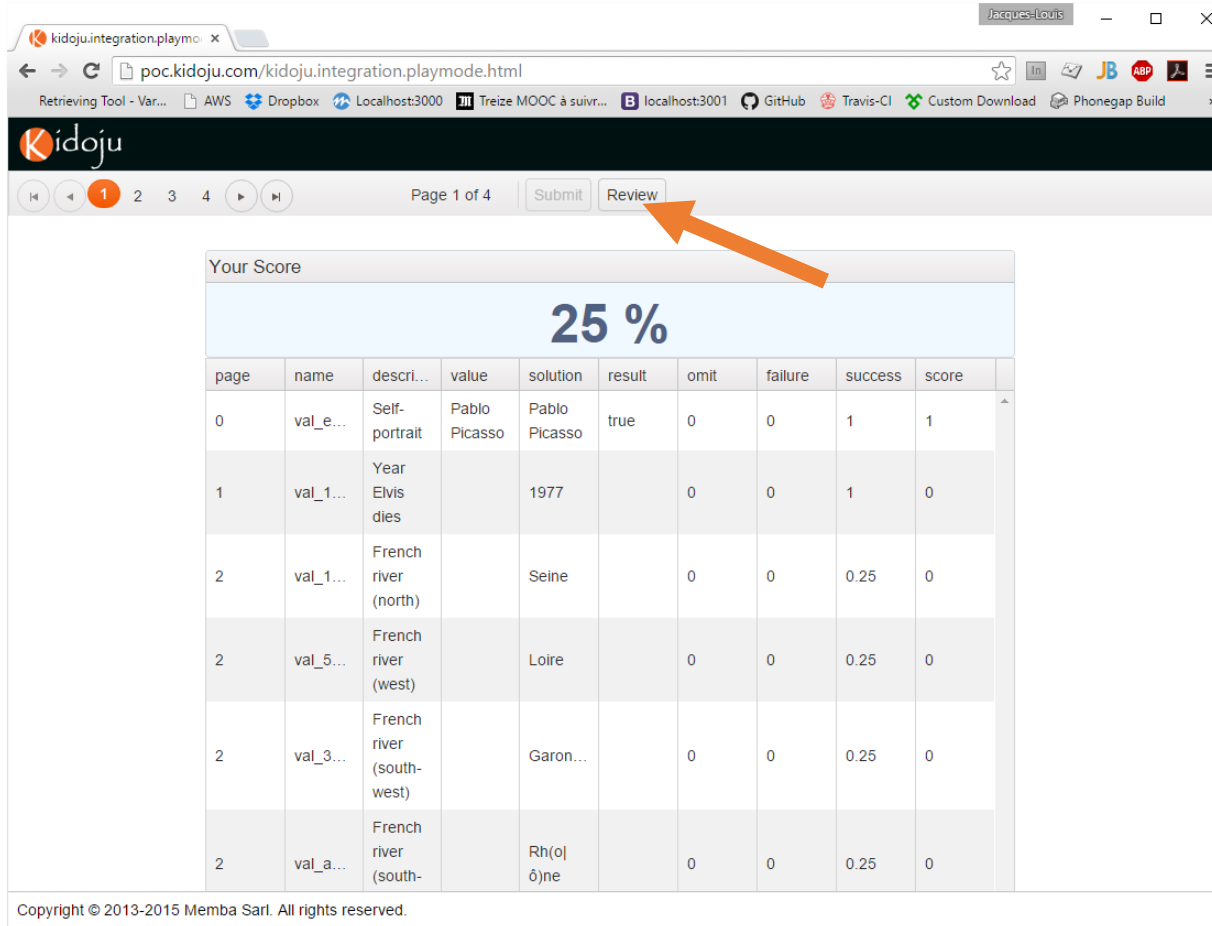
- A proof of concept is not a finished product, it is unstable by nature
- The test that is played is the one which is saved in local storage
- So if you click play without saving, you lose your changes

Playing a test



- Click **Play** in the designer
- Note: to get back to the designer, click the browser back button
- Enter your answers and click the numbers and arrows in the toolbar to change pages
- At the end, click **Submit**
- Note: imagine **instructions** in a side panel

Your score



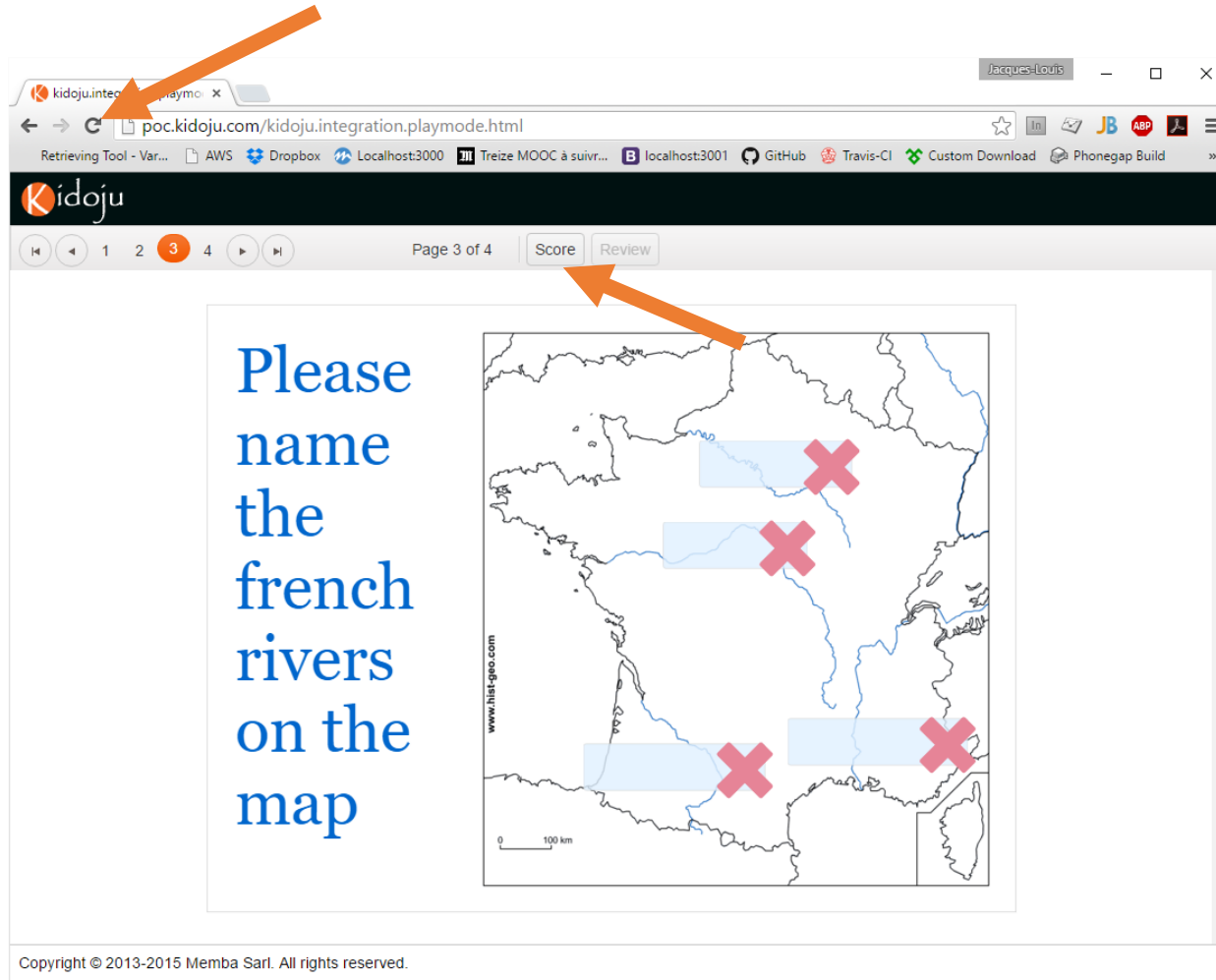
The screenshot shows a web browser window with the URL `poc.kidoju.com/kidoju.integration.playmode.html`. The page displays a quiz result for 'Jacques-Louis'. The score is 25%. Below the score is a table with 10 columns: page, name, descri..., value, solution, result, omit, failure, success, and score. The table contains 6 rows of data. An orange arrow points to the 'Review' button in the top navigation bar.

| page | name | descri... | value | solution | result | omit | failure | success | score |
|------|----------|---------------------------|---------------|---------------|--------|------|---------|---------|-------|
| 0 | val_e... | Self-portrait | Pablo Picasso | Pablo Picasso | true | 0 | 0 | 1 | 1 |
| 1 | val_1... | Year Elvis dies | | 1977 | | 0 | 0 | 1 | 0 |
| 2 | val_1... | French river (north) | | Seine | | 0 | 0 | 0.25 | 0 |
| 2 | val_5... | French river (west) | | Loire | | 0 | 0 | 0.25 | 0 |
| 2 | val_3... | French river (south-west) | | Garon... | | 0 | 0 | 0.25 | 0 |
| 2 | val_a... | French river (south- | | Rh(o)lone | | 0 | 0 | 0.25 | 0 |

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- Clicking **Submit** displays a detailed scoresheet
- Click **Review** to review corrections on each page
- Note: keep the names in the form `val_` for now

Reviewing a test



- Clicking **Review** displays corrections
- Click **Score** to display the scoresheet
- Note: imagine **instructions** in a side panel
- Click the browser refresh button to reactivate play mode or the browser back button to display design mode