

PipetteCoach™



Thank you for joining the community of PipetteCoach™ users.

The PipetteCoach application is provided with an Android tablet and a regular PIPETMAN® pipette equipped with a smart, Bluetooth® plunger button (i.e., Gilson Smart Push Button, LT801665).

PipetteCoach is the first ever training solution developed to provide immediate, measurable, and useful feedback about one's pipetting work.

Get Started

Before first use, remove the strip protecting the batteries of the button.

To switch on the smart button, press it to the purge stop for 4-6 seconds until the LED lights blink.

To launch PipetteCoach, switch on the tablet and select  on the home screen.

The following pages will show you how to use each of the application four screens to START a session (screen 1), PRACTICE your pipetting skills (screen 2), ANALYZE recorded sessions (screen 3), and EXPLORE updates and documentation (screen 4).

Although we have done our best to reflect a real-life experience, we would like to remind you that PipetteCoach has been specifically developed for an educational purpose. It is not recommended to use the data provided by the application to review professional experiments.

PipetteCoach 1.0
September 2024

To provide feedback or request support, contact pipettecoach@gilson.com

How to use the Start screen

The screenshot shows the PipetteCoach interface. At the top left is the PipetteCoach logo. To its right is a 'Click to login' button with a circled '1'. Below the logo is a navigation bar with four tabs: 'Start', 'Practice', 'Analyze', and 'Explore'. Underneath the navigation bar is the 'Pipette detection :' section, which includes a 'Scan' button with a circled '2'. Below the 'Scan' button is a table with the following data:

Pipette	Serial	Last used	Button	Battery	Connection
P200	ZZ0	04/09/2024	e5f1a509cc42	75 %	<input checked="" type="checkbox"/> on <input type="checkbox"/> off

A blue box highlights the first row of the table, with a circled '3' below it. The 'on/off' buttons are also highlighted with a circled '4' below them.

- 1 Log in to enable session recording. Log out to stop recording and monitoring session duration.
- 2 Click **Scan** to find pipettes available for connection.
- 3 View pipette(s) information to select an instrument for your session.
- 4 Use the **on/off** buttons to connect/disconnect the selected pipette to PipetteCoach.

NOTE: Please avoid connecting several pipettes to the application at the same time.

How to use the Practice screen (part 1 / 3)

The screenshot shows the PipetteCoach interface. At the top left is the PipetteCoach logo. To its right is a 'Click to login' button. Below the logo is a navigation bar with four tabs: 'Start', 'Practice' (which is highlighted), 'Analyze', and 'Explore'. The main area contains a line graph showing effort over time. The graph has three distinct peaks. A blue circle with the number '1' is placed above the first peak, and another blue circle with the number '2' is placed above the second peak. To the left of the graph, the text '14 cycle(s)' is displayed next to a blue circle with the number '1'. To the right of the graph, there are three circular indicators: 'Sample loss' (a blue circle with a white symbol), 'Repeatability' (a green circle with '75%' inside), and 'Position' (a red circle with a pipette icon). A blue line connects these three indicators to a blue circle with the number '1'. At the bottom left, the text 'Your pipetting experience' is displayed above two buttons: 'Record on/off' and 'Metrics reset'. A blue circle with the number '3' is placed to the left of the 'Record on/off' button, and a blue circle with the number '4' is placed to the right of the 'Metrics reset' button.

- 1 Check these indicators for real-time feedback on pipetting work (see details on next two pages).
- 2 Visualize the effort exerted on the plunger to reach the first and second stops.
- 3 Click **Record on/off** to start or stop recording (files are accessible on the Analyze screen).
- 4 Click **Metrics reset** to reset all indicators back to zero.

How to use the Practice screen (part 2 / 3)

The screenshot shows the PipetteCoach interface. At the top left is the PipetteCoach logo. To its right is a 'Click to login' button. Below the logo is a navigation bar with four tabs: 'Start', 'Practice' (which is highlighted), 'Analyze', and 'Explore'. The main area contains a line graph titled 'Your pipetting experience' with a 'Record on/off' and 'Metrics reset' button below it. The graph shows a blue line representing pipetting experience over time, with a '14 cycle(s)' label and a circled '4' indicating the current cycle. To the right of the graph are three circular indicators: 1. 'Sample loss' with a circled '1' and a female symbol icon. 2. 'Repeatability' with a circled '2' and a green circle containing '75%'. 3. 'Position' with a circled '3' and a pipette icon.

1 Click once to assess the loss of volume for a session in Forward mode, twice for Reverse mode, and a third time to deactivate this indicator (see details on next page).

2 View the repeatability for the first and second stops (see details on next page).

3 View if the pipette is held between -40° and $+40^\circ$ (for further details access *Gilson Guide to Pipetting* through the Explore screen, with the PipetteCoach library).

4 Check how many cycles you have done since starting the session (or resetting the metrics).

NOTE: Calculation of the volume lost is based on a water sample and without considering the impact of the pipette position.

How to use the Practice screen (part 3 /3)



- 1 The Sample loss indicator is green below 5%, red above 10%, and orange in between.
- 2 The Repeatability indicator is red below 50%, green above 75%, and orange in between.

NOTE: Perform four to six pipetting cycles to fully activate the indicators on the graph.

For a better learning experience we recommend using PipetteCoach with a real sample. Accuracy improves if you remove your finger from the plunger and wait one second between aspirate and dispense.

How to use the Analyze screen

Session: JAME-BOND-LON
Duration (mn:sec): 1:23
Log out

1 Start 2 Practice 3 Analyze 4 Explore

1 Replay (1 file only) 2 Extract (1 file or more) 3 Delete (1 file or more)

4 User login - click here to filter -	Date - click here to filter -	Start time - click here to filter -	Duration - click here to filter -	Cycles - click here to filter -	Mode - click here to filter -	Pipette - click here to filter -
TIPH-DE J-SAR	4/9/2024	19:08	00:33	6	Forward	P200
TIPH-DE J-SAR	4/9/2024	19:08	00:57	12	Reverse	P200
JAME-BOND-LON	4/9/2024	19:10	01:07	13	Forward	P200

1 Select a session and then click **Replay** to watch it (only one session at a time).

2 Select one or more session(s) and then click **Extract** to download data in spreadsheet format.

3 Select one or more session(s) and then click **Delete** to remove it from the list.

4 Select any column header (e.g., Date or Cycles) to filter the list of recorded sessions.

NOTE: Click a row to select or deselect a session in the list.

How to use Replay

Session: JAME-BOND-LON
Duration (mn:sec): 1:40

Log out

Start Practice Analyze Explore

2 cycle(s)

1.3% Sample loss

94% Repeatability

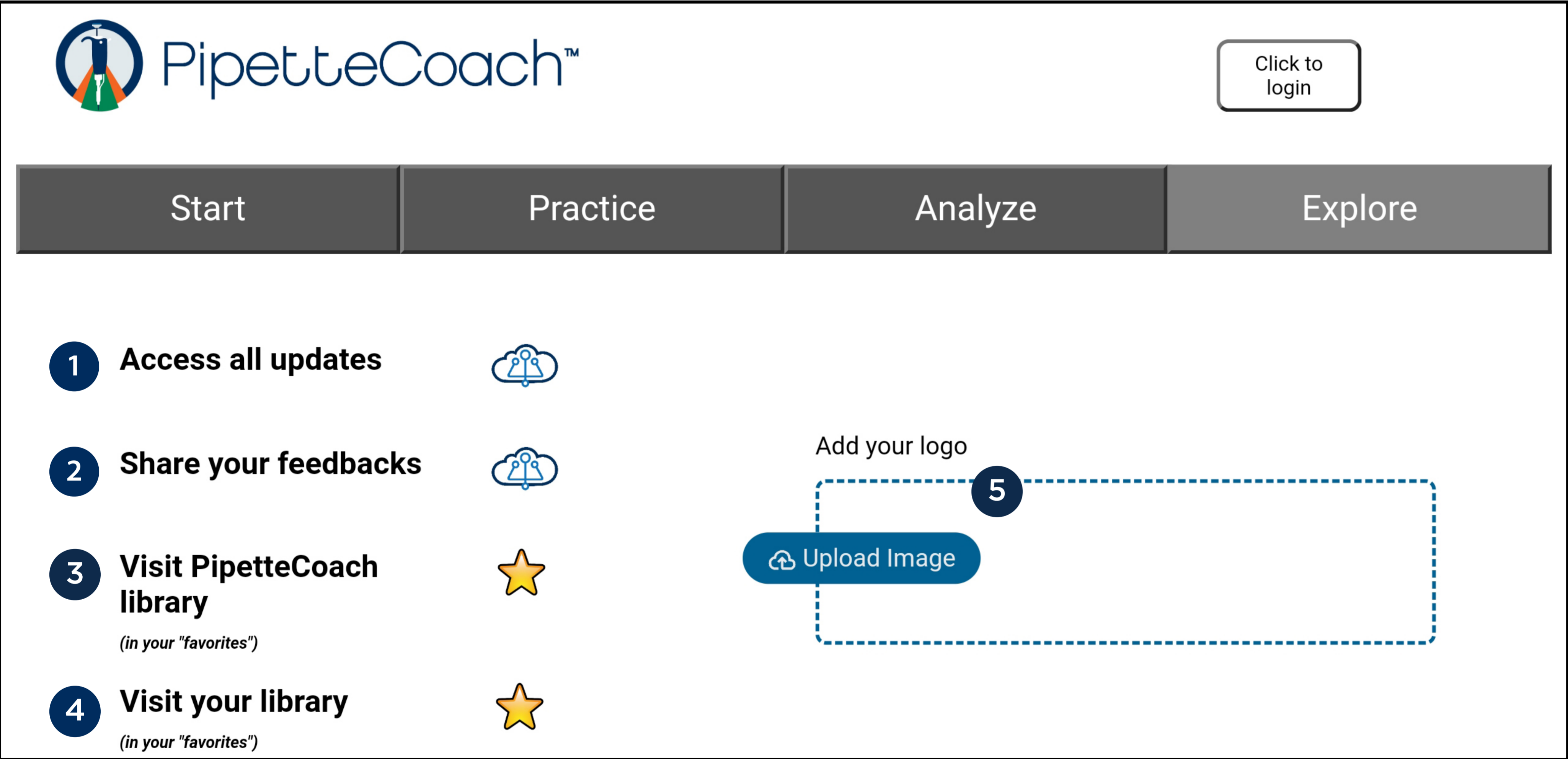
Position

Quit

- 1 Click to rewind, play, pause, or fast forward the recording.
- 2 Click **Quit** to exit the player and return to the Analyze screen.

NOTE: The Replay function is accessible via the Analyze screen.

How to use the Explore screen



- 1 Click to access PipetteCoach releases featured on the Gilson Connect web page.
- 2 Click to email us your comments and ideas.
- 3 Click to access PipetteCoach documentation stored on this tablet.
- 4 Click to access your institution (pipetting) documentation stored on this tablet.
- 5 Upload your logo or picture to customize your PipetteCoach experience.

Warranty

Gilson warrants this Android tablet loaded with PipetteCoach against defects in material under normal use and service for 12 months from the date of purchase. This warranty shall not apply to tablets that have been subjected to abnormal use and/ or improper or inadequate maintenance. This warranty shall also be void in the event the tablet is altered or modified by any party other than Gilson or its designates. Gilson's sole liability under this warranty shall be limited to, at Gilson's sole option, repair or replacement of any defective components of the tablet or refund of the purchase price paid for such tablet.

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