

# Train Composition Viewer

In the title bar, two input fields (from and to) is to search available trains. Clicking on the “Find Trains” button will initiate the search and display result.

Hel To FIND TRAINS Search for Routes

Helsinki asema

Helsinki Kivihaka

Started typing the station names will trigger the autocomplete feature to suggest station names. Clicking on one will complete the rest of the name.

## Available trains from TKU to HKI

- 1 - IC972 - 8/21/2017, 5:30:00 PM
- 2 - IC942 - 8/22/2017, 2:32:00 AM
- 3 - IC944 - 8/22/2017, 3:22:00 AM
- 4 - S976 - 8/22/2017, 4:03:00 AM

CLOSE

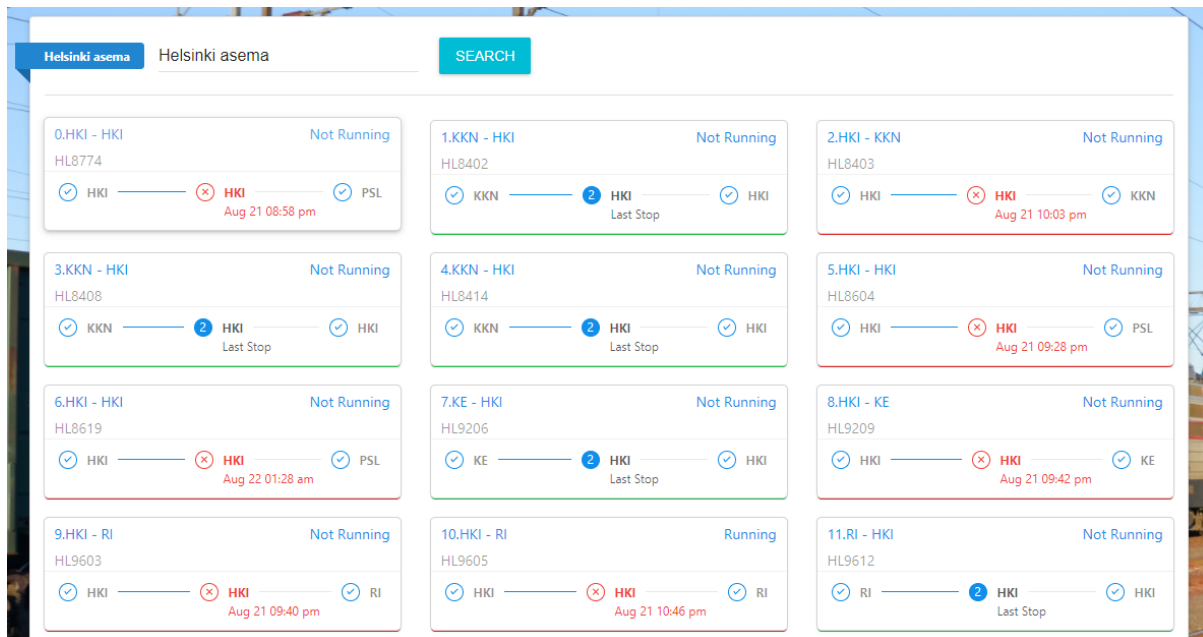
Results are displayed in an overlay box. Red color points that the train has already departed.

On a separate section, the train composition for a specific station is listed.

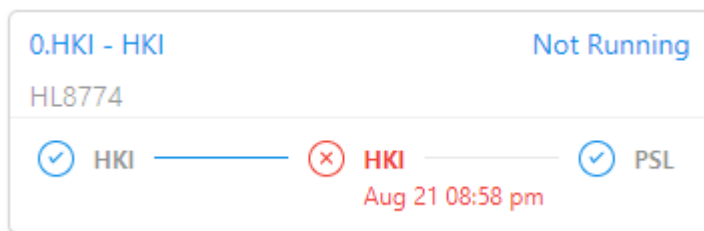
Salo Enter Station SEARCH

Route	Train	Status	Timeline
0.HKI - TKU	IC965	Not Running	HKI (✓) → SLO (✗ Aug 21 05:00 pm) → TKU (✓)
1.TKU - HKI	IC968	Not Running	TKU (✓) → SLO (✗ Aug 21 04:01 pm) → HKI (✓)
2.TUS - HKI	IC972	Not Running	TUS (✓) → SLO (✗ Aug 21 06:01 pm) → HKI (✓)
3.HKI - TKU	IC977	Not Running	HKI (✓) → SLO (✗ Aug 21 07:00 pm) → TKU (✓)
4.RILA - SLO	T3688	Not Running	RILA (✓) → SLO (2 Last Stop) → SLO (✓)
5.TKU - SLO	VET11208	Not Running	TKU (✓) → SLO (2 Last Stop) → SLO (✓)
6.SLO - TKU	T53587	Not Running	SLO (✓) → SLO (✗ Aug 21 08:41 pm) → TKU (✓)
7.HKI - TUS	IC941	Not Running	HKI (✓) → SLO (2 Aug 22 03:52 am) → TUS (3)
8.TKU - HKI	IC942	Not Running	TKU (1) → SLO (2 Aug 22 03:03 am) → HKI (3)

Top left corner, current station name is shown and followed by an input field and search button. This input field has autocomplete feature as well. Clicking on search will refresh and populate with the given stations train composition.



Each train information is shown separately.



The red color with cross indicates that the train has already departed. On top left corner, trains starting point and ending point is displayed. Both with same value means it's a round trip. Underneath that information, train number with type is shown. On upper right corner, the information if the train is currently running or not is displayed. In the bottom part of the block trains starting point and ending point (in case of round trip, the last stop before reaching back is shown) is shown along with the current station and the departure time. Checked icon points that the train has already departed from the starting point or reached the destination.

Clicking on a train information anywhere will show information regarding the train itself.

2.HKI - KKN

Not Running

HL8403

✓ HKI

—

✗ HKI

—

✓ KKN

Aug 21 10:03 pm

5.HKI - HKI

HL8604

✓ HKI

—

✗

8.HKI - KE

HL9209

✓ HKI

—

✗

Aug 21 09:42 pm

Locomotive:Sm5 Electric

Wagons:Sm5

Maximum Speed:120

Total Length:75

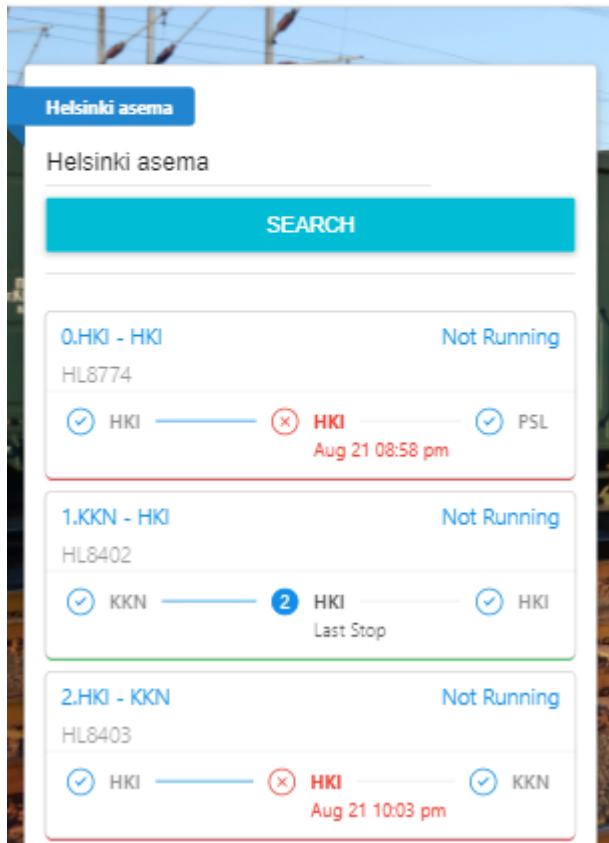
The information contains Locomotive, Wagons, Maximum Speed and Total length of the train.

The overall display of the page is responsive and mobile screen friendly.

From

To

**FIND TRAINS** Search for Routes



The screenshot shows a mobile application interface for finding train routes. At the top, there are input fields for 'From' and 'To', followed by a 'FIND TRAINS' button and the text 'Search for Routes'. Below this is a section titled 'Helsinki asema' with a 'SEARCH' button. The search results are displayed in a list of three train entries, each with a route number, train number, status, and a visual timeline of stops.

Route	Train Number	Status	Timeline
0.HKI - HKI	HL8774	Not Running	HKI (checked) → HKI (crossed) → PSL (checked) Aug 21 08:58 pm
1.KKN - HKI	HL8402	Not Running	KKN (checked) → 2 HKI (checked) → HKI (checked) Last Stop
2.HKI - KKN	HL8403	Not Running	HKI (checked) → HKI (crossed) → KKN (checked) Aug 21 10:03 pm

Technology and Resources used for development:

- ReactJS
- Webpack
- Material UI
- Semantic UI
- Ant Design
- Bootstrap
- Lodash
- Axios
- Moment
- Babel
- ESLint