

# Evaluation of common input devices for web browsing: mouse vs touchpad vs touchscreen

Andrej Malečkar, Matjaž Kljun, Peter Rogelj, Klen Čopič Pucihar

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## Rationale



## 7 real world tasks

1. open a URL address,
2. copy/paste a URL address
3. copy/paste text
4. scroll up-down
5. scroll left-right
6. zoom in the context of a web page
7. navigate a map



## HP ProBook 4530s

15.6"

Core i3 2310M

64-bit

4 GB RAM

320 GB HDD

MSRP: \$579.00



## Galaxy S6 Edge

5.1-inch display  
Octa-core CPU  
3GB of RAM  
Full retail: \$499

### 3. Kopiranje besedila

Preden se lotite naloge preberite naslednja navodila po korakih:

1. Kliknite na spodnji gumb "Začetek"
2. Kopirajte spodnje besedilo. Najprej označite besedilo z potegom miške čez besedilo. To naredite tako, da (1) kliknete in držite levi gumb miške poleg besedila, (2) s potegom miške čez besedilo le-to označite in nato (3) spustite miškin gumb. Nato desno kliknite na označeno besedilo ter izberete možnost "Kopiraj"
3. Prilepite besedilo v polje "Besedilo" z desnim klikom miške ter izbiro "Prilepi"
4. Kliknite na gumb "Konec"
5. Kliknite na gumb "Naslednja naloga"

Začetek

"Lorem Ipsum"

Besedilo:

Konec

Naslednja naloga

••••• MOBITEL 00:08

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Začetek

Začetek

"Lorem Ipsum"

Besedilo:

Konec

Naslednja naloga

Domov

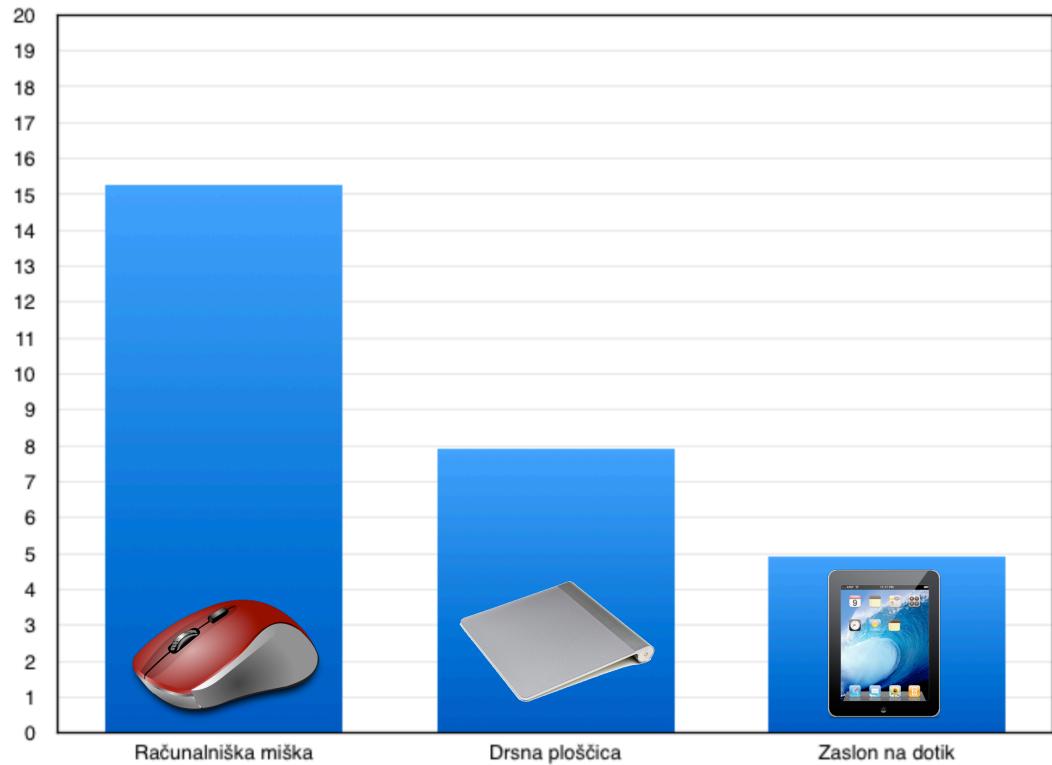
Pripravil: Andrej Malečkar 89091026

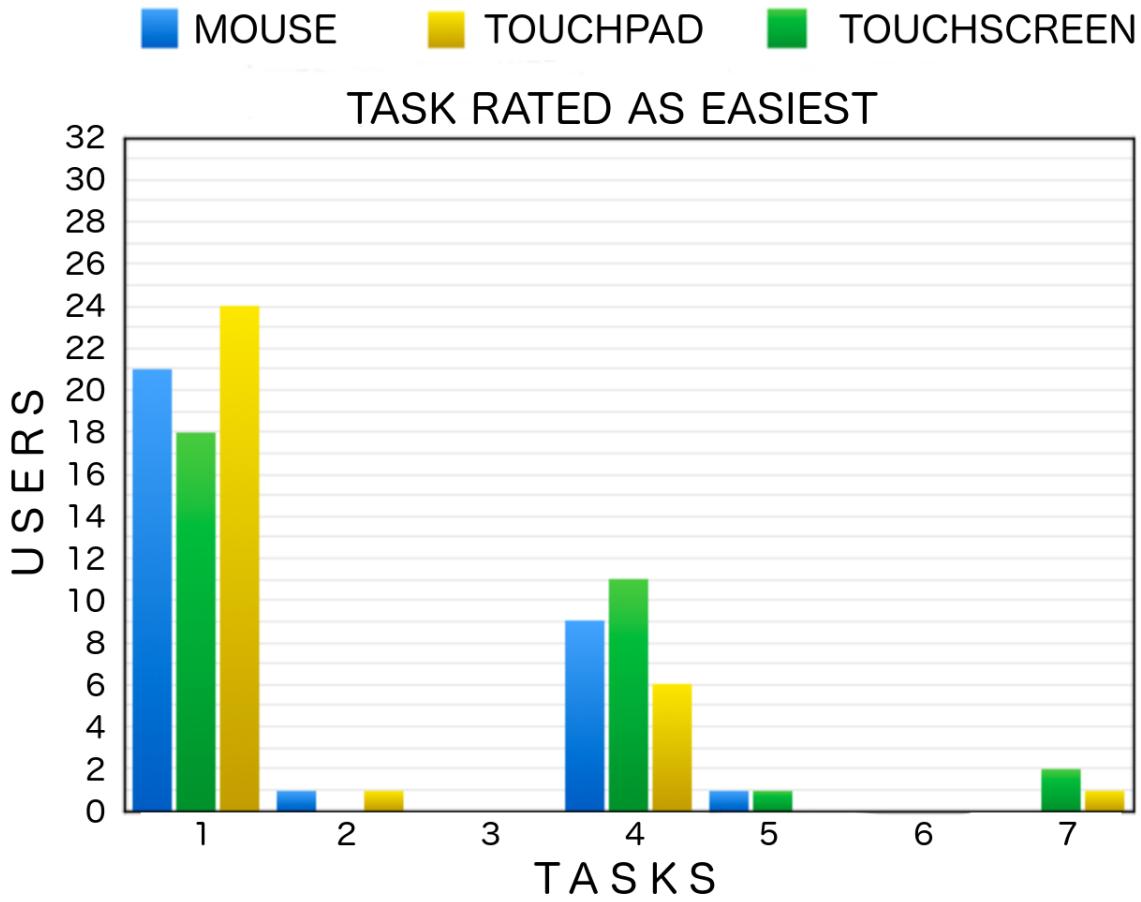
Mentor: Peter Rogelj

So-mentor: Matjaž Kljun

## Participants

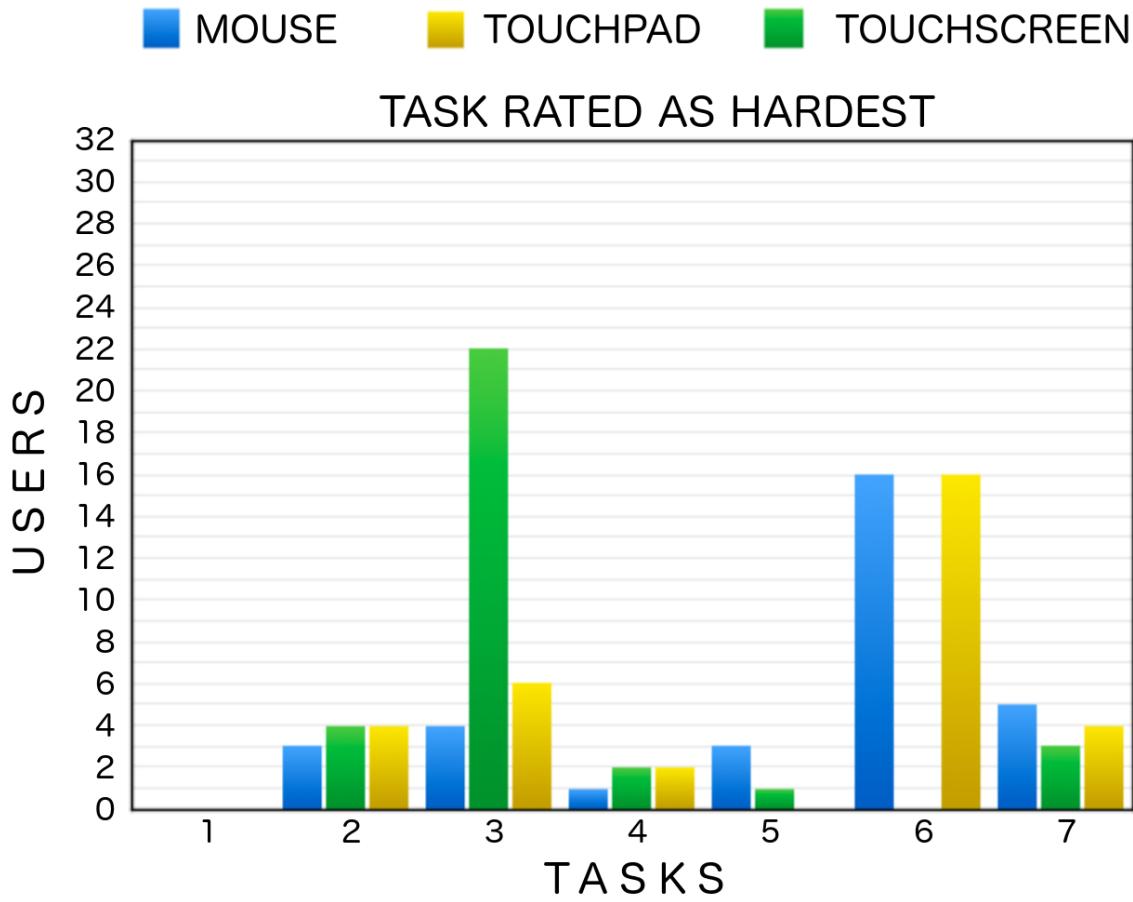
- 32 users (11 female and 21 male)
- average 28 years old, and had used:
  - a mouse on average 15.25 years
  - a touchpad on average 7.9 years
  - touchscreen on average 4.9 years





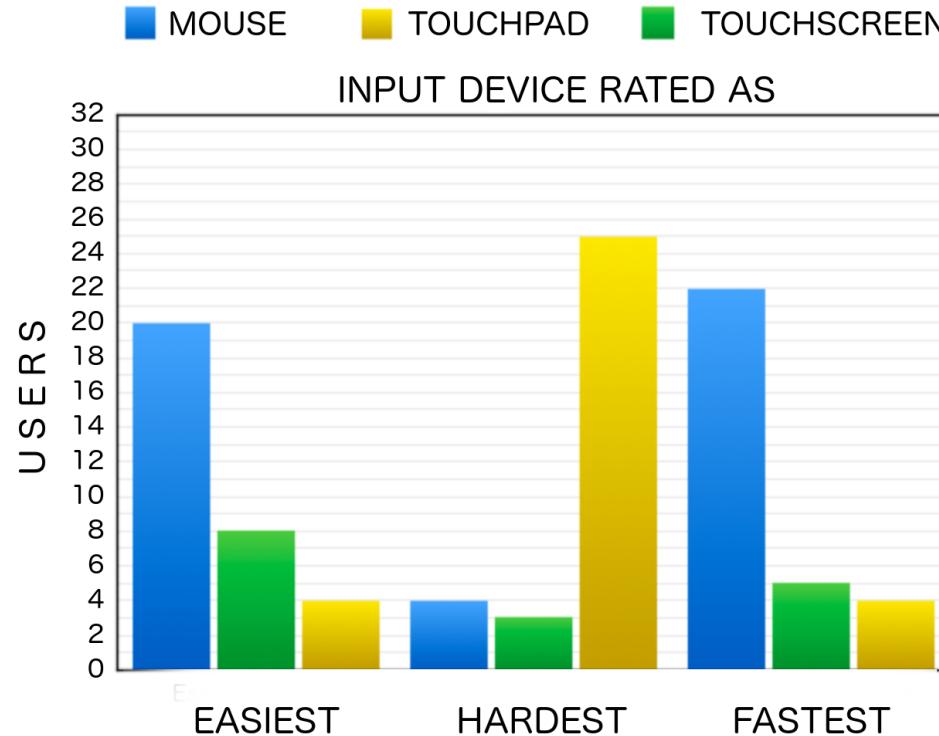
## Tasks

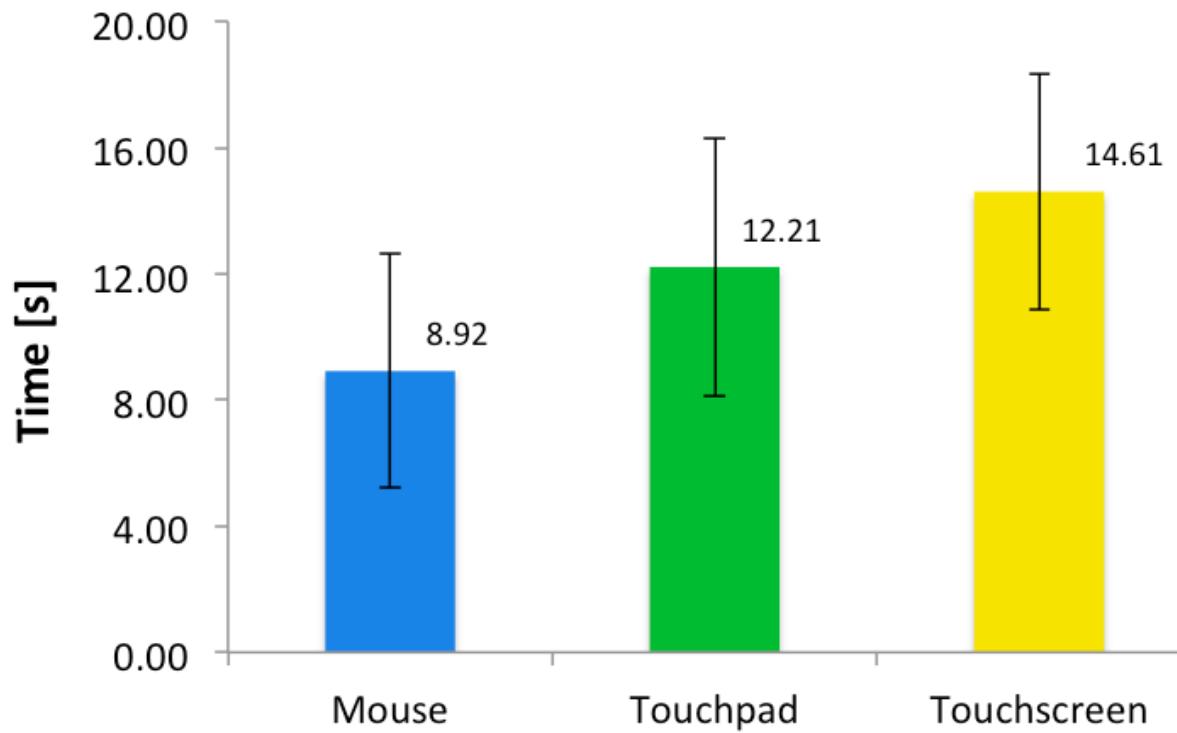
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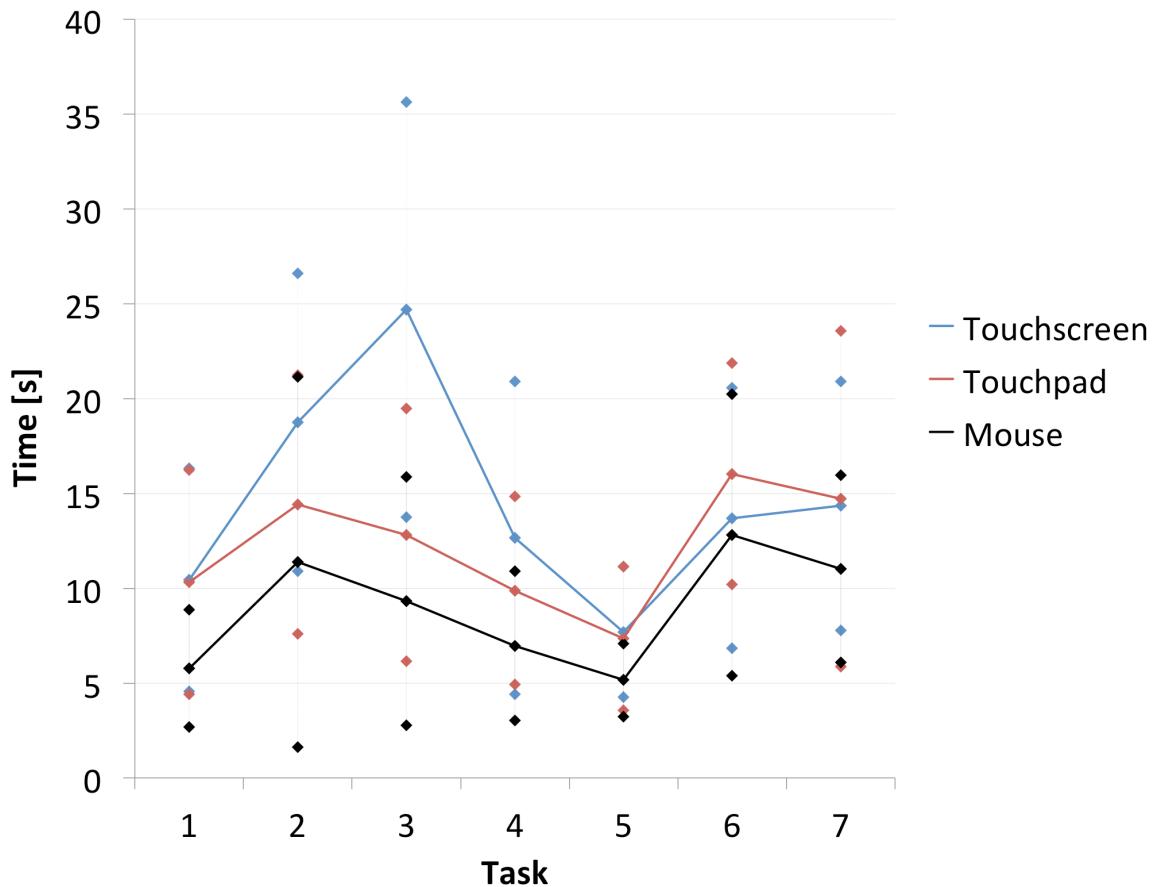


## Tasks

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## Tasks

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## Conclusions & future

- Similar to previous studies ... preference of using a mouse over other input devices
- Individual tasks can be faster or equally well performed on particular input device compared to overall fastest/preferred
- Preference also depends on how familiar users are with a particular input device
- Implementation of interaction for a particular task
- The perceived quality, responsiveness.

Look into ways of

- how to make certain tasks easier
- how to standardize interaction to improve usability of these devices.

# Questions?

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