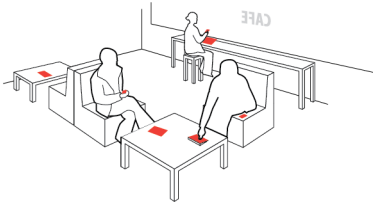
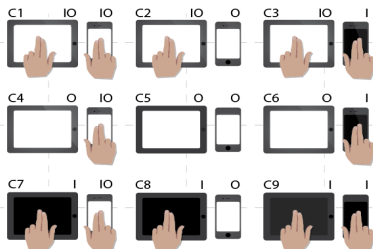


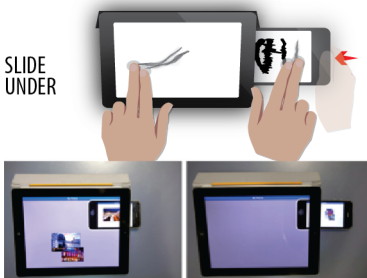
# Dynamic Duo: Phone-Tablet Interaction on Tabletops



**Fig. 1:** Mobile settings and uses of portable technologies; here in a café.



**Fig. 2:** Dynamic Duo design space: Tablet-phone combos coded with hands when input (I) and white when output (O).



**Fig. 3:** Slide-under technique.

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## Abstract

As an increasing number of users carry smartphones and tablets simultaneously, there is an opportunity to leverage the use of these two form factors in a more complementary way. Our work aims to explore this by a) defining the design space of distributed input and output solutions that rely on and benefit from phone-

tablet combinations working together physically and digitally; and b) reveal the idiosyncrasies of each particular device combination via interactive prototypes. Our research provides actionable insight in this emerging area by defining a design space, suggesting a mobile framework, and implementing prototypical applications in such areas as distributed information display, distributed control, and combinations of these. For each of these, we show a few example techniques and demonstrate an application combining more techniques.

## Keywords

Content; context-aware; phone; tablet; combination

## ACM Classification Keywords

H.5.2 [Information interfaces and presentation]: User Interfaces. Input devices and strategies, Mobile user interfaces.

## References

T. Piazza, S. Zhao, G. Ramos, A.E. Yantaç, M. Fjeld (2013): Dynamic Duo: Exploring Phone-Tablet, Combinations for Mobile Usage. WIP, TEI 2013, 8 p.

<http://www.tei-conf.org/13/sites/default/files/page-files/Piazza.pdf>

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