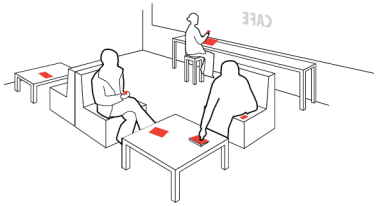

Fig. 1: Mobile settings and uses of portable technologies; here in a café.

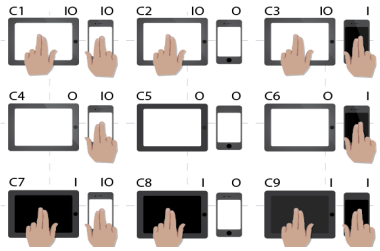

Fig. 2: Dynamic Duo design space: Tablet-phone combos coded with hands when input (I) and white when output (O).

Fig. 3: Slide-under technique.

Dynamic Duo: Phone-Tablet Interaction on Tabletops

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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.

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