Form-1 Components Will re-render when args Just a function that _____ ── (defn green-button [txt] <</p> change or when Reagent returns Hiccup [:button.green txt]) Atoms it derefs change Form-2 Components argument lists should match (defn counting-button [txt] ← or it won't re-render when (let [state (reagent/atom 0)] they change use Reagent Atom to (fn [txt] ← store local state [:button.green {:on-click #(swap! state inc)} (str txt " " @state)]))) use reagent/create-class Form-3 Components (defn complex-component [a b c] to create the component (let [state (reagent/atom {})] define the lifecycle (reagent/create-class method you'd like → {:component-did-mount this argument is available (fn [this] (println "I mounted")) to refer to the component :display-name "complex-component" note that you must define :render-reagent not :render name will be included :render-reagent ← to get the Reagent magic in error messages (fn [a b c] [:div {:class c} [:i a] " " b])}))) Hiccup attributes go in a map [:div#login-form.row id and class shorthand [:form {:method :post :action "/login" id="login-form" class="row" stule attribute is broken :style {:margin-left "10px" out into a map instead of a :text-align :center}} embed components ______ [username-field] string ____ [password-field a b c] directly in [] [:button {:type :submit segs are allowed instead :class ["btn" "btn-blue"]} of string concatenation "Log in"]]] Reagent Atoms usually defined using construct using defonce to allow for (defonce state (reagent/atom [1 2])) ← reagent/atom (defn big-component [] reloading (let [[a b] @state]] deref inside a component so [:div they are re-rendered on my-component is → [my-component a]])) changes to the atom re-rendered when a changes Seqs & Lazy seqs components that render (defonce student-urls (reagent/atom {})) lists should add a : key (defn student-list [students] for is lazy attribute that is stable [:ul and unique (doall we deref inside the (for [student students] for [:li {:key (:id student)} force evaluation to [:a {:href (get @student-urls (:id student))} (:name student)]]))]) ensure component will re-render PurelyFunctional.tv