

# Επικοινωνία Ανθρώπου Υπολογιστή



## Φορητές συσκευές

Βαγγέλης Πτερνέας - Καρακατσιώτης Γιώργος

PC vs Mac?



“When we were an agrarian nation, all cars were trucks, because that’s what you needed on the farm, but as vehicles started to be used in the urban centers, cars got more popular. Innovations like automatic transmission and power steering and things that you didn’t care about in a truck as much started to become paramount in cars. ... PCs are going to be like trucks. They’re still going to be around, they’re still going to have a lot of value, but they’re going to be used by one out of X people.”

*Steve Jobs, 2010*



Write once,  
deploy anywhere?



Dunlath  
Isengard  
South  
Fords of Isengard  
WESTFOLD  
Helm's Deep  
Emnet  
modlo  
Emnet

# ... Μύθος

- Σεβασμός στον κάθε τύπο συσκευής
- Διαφορετικά χαρακτηριστικά
  - Καλύπτουν διαφορετικές ανάγκες
- Ακόμα μεγαλύτερος σεβασμός στην κάθε πλατφόρμα
  - Η κάθε μία έχει τη δική της φιλοσοφία
  - Μία παράταιρη εφαρμογή = κακή εμπειρία χρήσης
- HTML 5: φτηνό υποκατάστατο

Κινητά τηλέφωνα











Νέος τρόπος αλληλεπίδρασης



# Touch me if you can (pixel-hunting)



# Case Study





# iOS 1.0



# iOS 6.0





# iOS 8.0



Πόσοι διαφορετικοί τρόποι αλληλεπίδρασης υπάρχουν;



# Flat Design

[Book a Car](#)[View/Modify/Cancel a Reservation](#)

1

**Pickup Location** (City, State, Airport Code or US Zip Code)

[Help me find a location](#) Return car to a different Hertz location

2

**Pickup Date & Time:**

09:00 AM



**Return Date & Time:**

09:00 AM



3

**Please Select an Age**

**Rental Car Type:**

 Use my Hertz Gold Plus Rewards Points Enter a Discount or Promo Code[Book as a Member](#)[Book as a Guest](#)

## AAA Members

*Save \$5/Day Up to \$35  
on Weekend and  
Weekly Car Rentals!*



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# Hertz

Reservations

Discounts & Coupons

Location Search

Vehicle

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 09:00 AM

Return Date & Time:

 09:00 AM

3 Please Select an Age

 25+

Rental Car Type:

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 Return Date & Time: 09:00 AM

3. Please Select an Age: 25+

Rental Car Type: Cars I Might Want  
 Use my Hertz Gold Plus Rewards Points  
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Βρες τη διαφορά

# Fire Phone



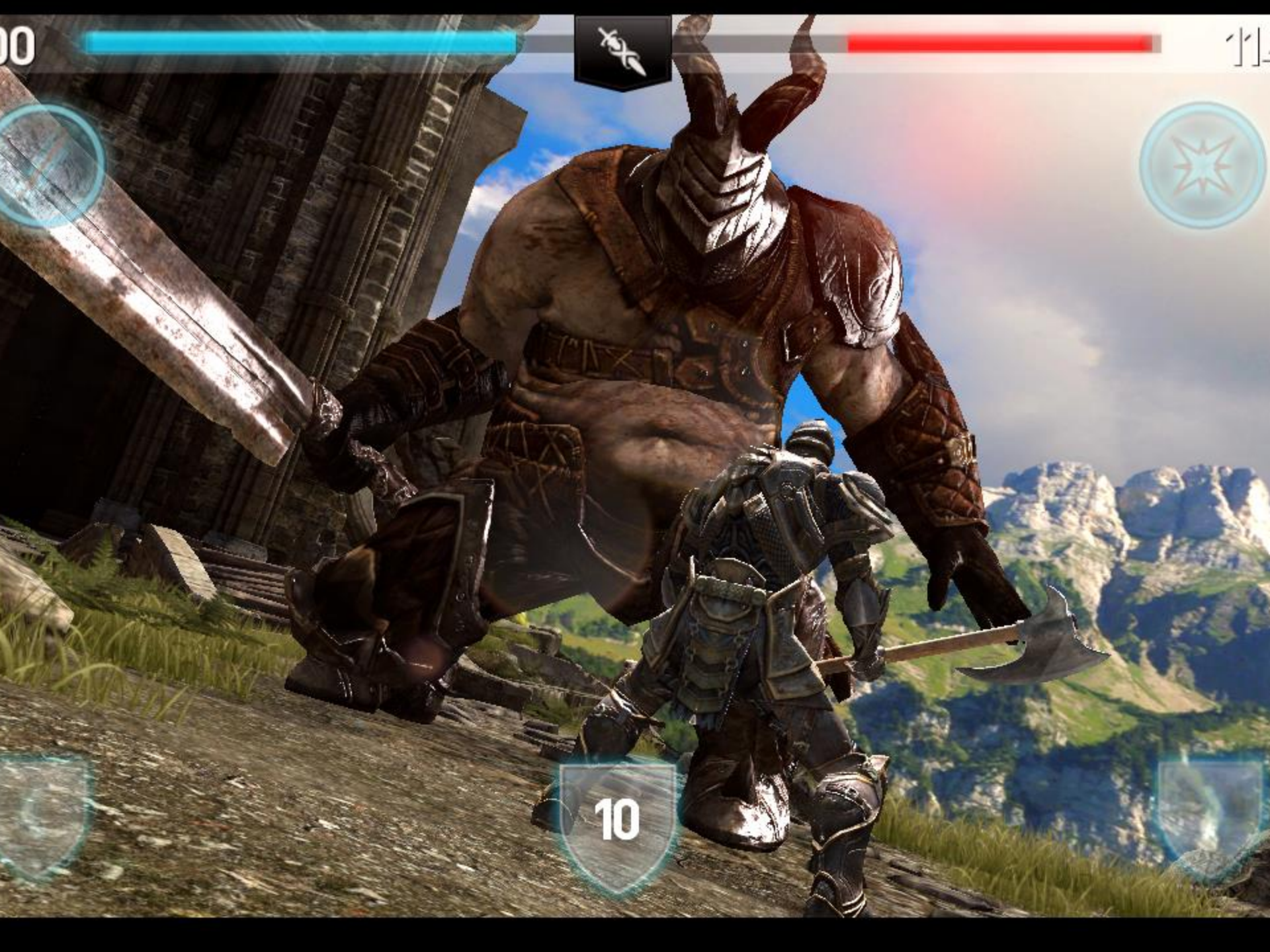
# Κρυμμένα panels



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11



# Think out of the box

- User driven interface
  - Αν ο κόσμος δε χρησιμοποιεί κάποια χαρακτηριστικό της εφαρμογής και
  - Αν το χαρακτηριστικό προσθέτει πολυπλοκότητα
  - Τότε πρέπει να αφαιρεθεί
- Αλλά μην το παρακάνεις...
  - Για να χρησιμοποιήσει κάποιος ένα χαρακτηριστικό πρέπει πρώτα να ξέρει ότι υπάρχει
  - Κρύβοντας πληροφορία, κερδίζεις χώρο, αλλά χάνεις σε αναγνωρισιμότητα
  - Αφήστε τον τροχό ήσυχο....

# Taskbars

- Συνήθως στο πάνω ή στο κάτω μέρος της οθόνης
  - Γιατί;
- Σταθερό περιεχόμενο
  - Η Taskbar είναι το σημείο αναφοράς του χρήστη
- Πιο συχνά χρησιμοποιούμενες ενέργειες
- Συνήθως περιέχουν εικονίδια
  - Θα πρέπει να είναι σαφές τι αντιπροσωπεύουν
  - Ουδέτερα στοιχεία που δεν αποπροσανατολίζουν το χρήστη από αυτό που θέλει να κάνει: να επικεντρωθεί στην ίδια την εφαρμογή
- Συνηθισμένος τρόπος πλοήγησης

# Scrolling

- Κάθετο
  - Περισσότερη πληροφορία (όπως και στις ιστοσελίδες)
- Οριζόντιο
  - Αλλαγή τύπου περιεχομένου
  - Κακή ιδέα (που συχνά υλοποιείται): Χρήση του οριζόντιου scrolling ως λίστα πολλαπλών επιπέδων
    - Χρησιμοποιείται συνήθως για να θέσει ο χρήστης πολλαπλά φίλτρα
    - Αν χρειάζεται λίστα πολλαπλών επιπέδων, χρησιμοποιείστε λίστα πολλαπλών επιπέδων



Πέρα από την οθόνη αφής...  
αισθητήρες



# URLs

- <https://goo.gl/NV2eW3>
- <https://goo.gl/l7rlV1>
- <https://goo.gl/eVhn4w>