

# Aggiornamento del Presentation Layer di un Web Application Framework

Introduzione del Responsive Web Design nel Framework Quix

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**Universita degli Studi di Modena e Reggio Emilia**

# Introduzione



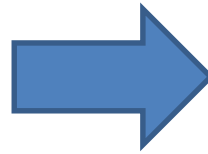
- **Analisi di una problematica**
- **Esplorare una nuova tecnologia**
- **Introdurre la nuova tecnologia nel Framework aziendale**



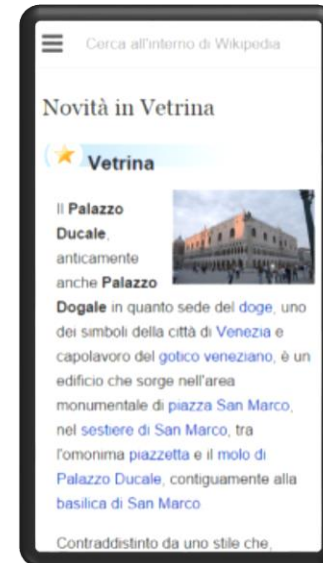
# Visualizzazione su dispositivi eterogenei



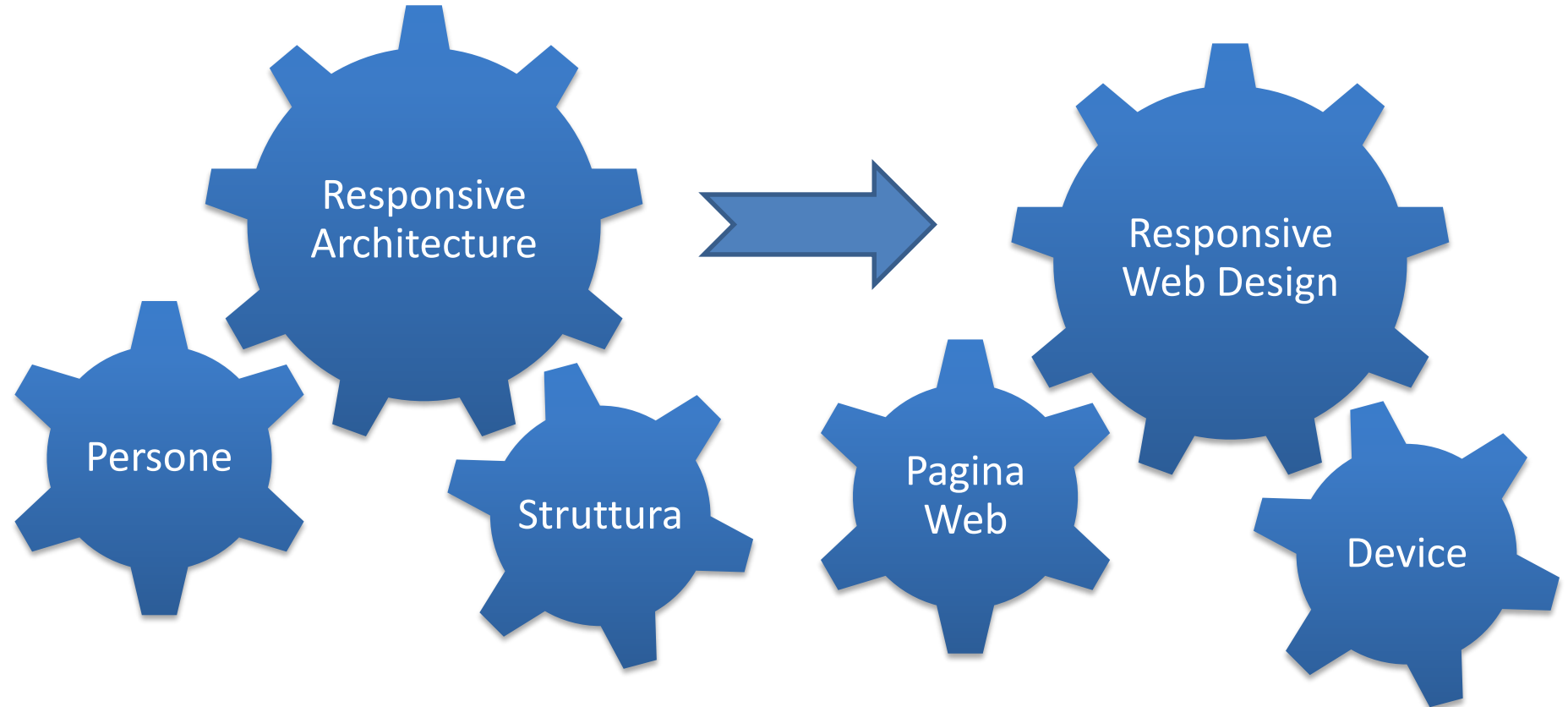
# Visualizzazione su dispositivi eterogenei



# Visualizzazione su dispositivi eterogenei



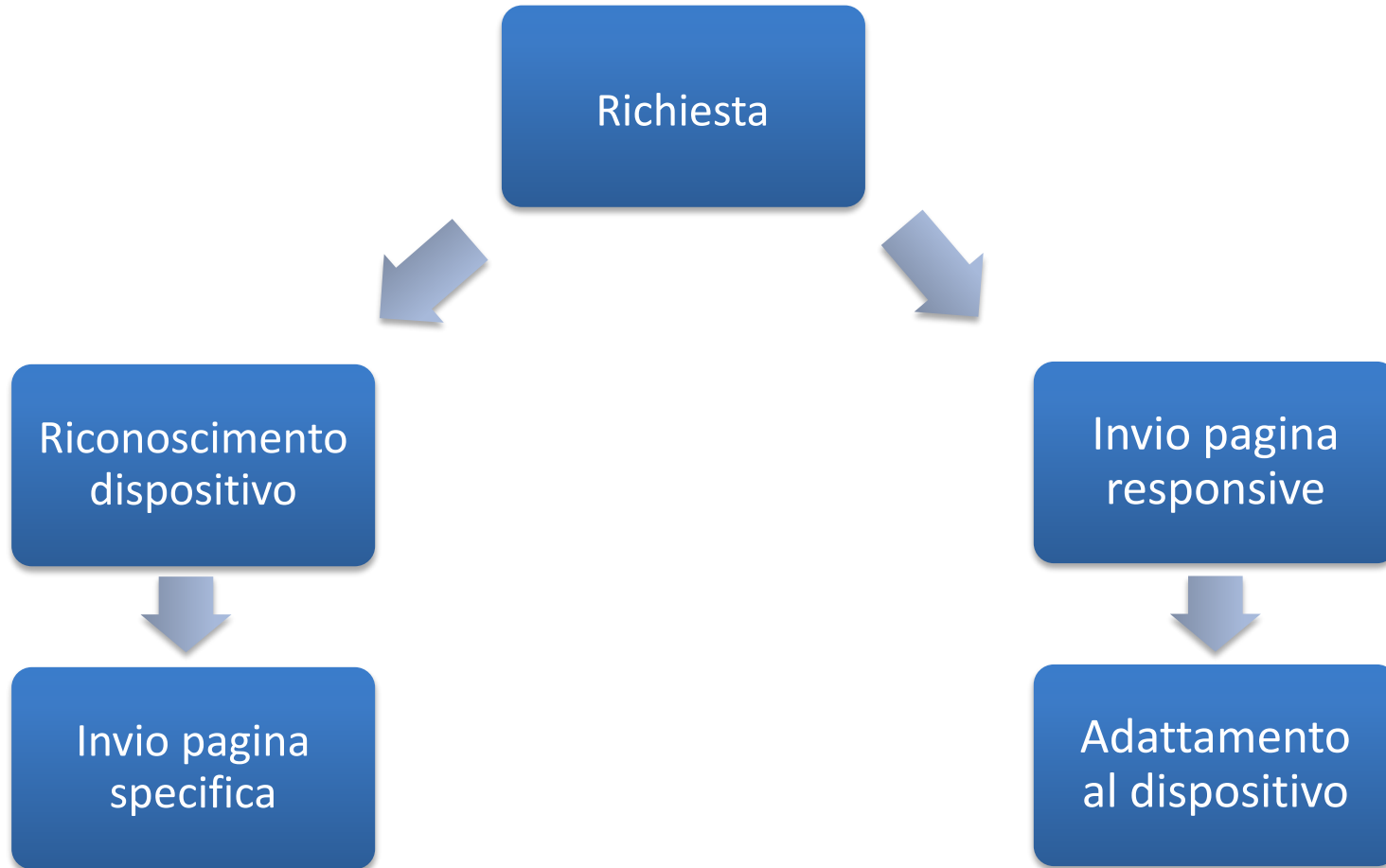
# Responsive Web Design



# Responsive Web Design

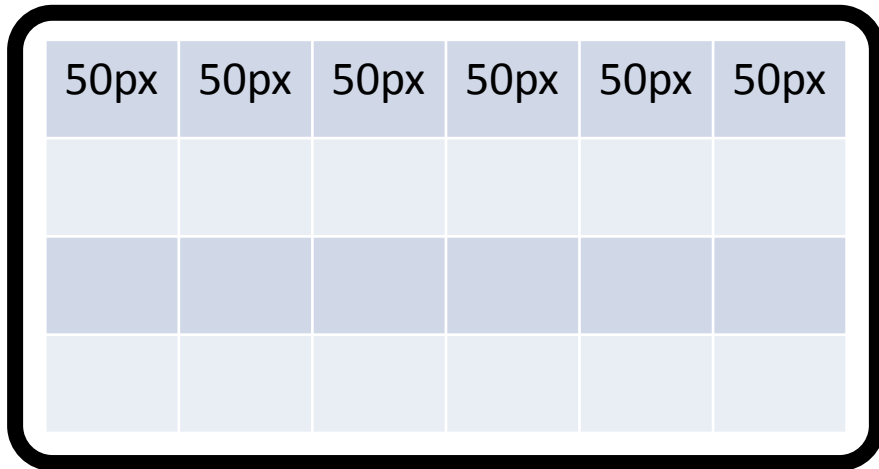
## Approccio classico

## Approccio responsive



# Responsive Web Design

## Approccio classico



- Griglia a dimensioni fisse
- Visualizzazione costante su tutti i dispositivi
- Esperienza ridotta sui dispositivi grandi

## Approccio responsive

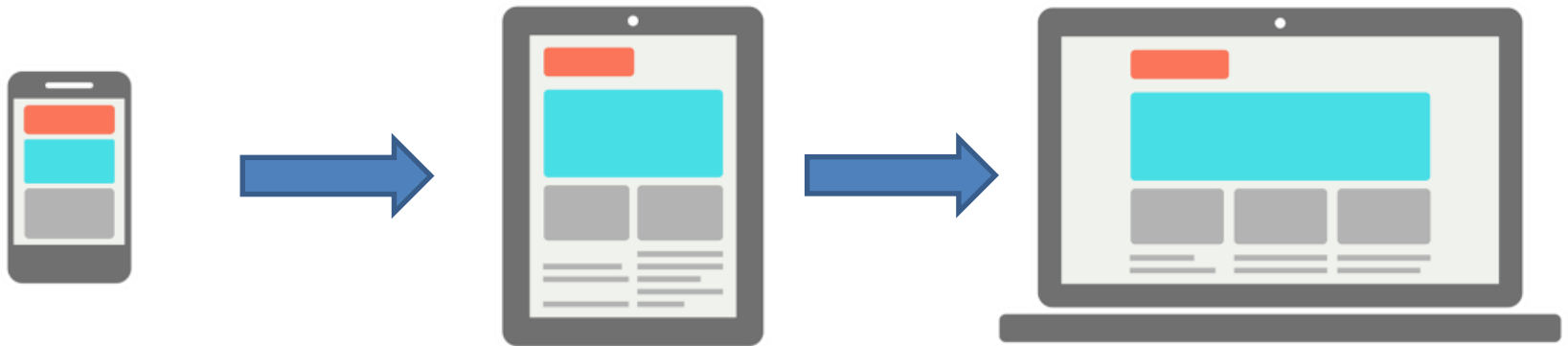


- Griglia flessibile
- Basata sulle proporzioni
- Non sempre ottimale su dispositivi piccoli

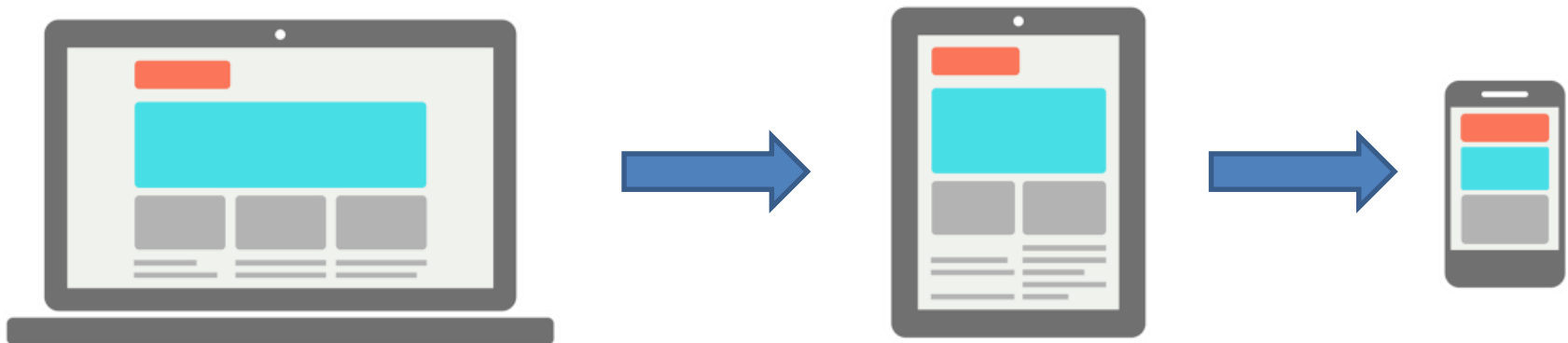


# Responsive Web Design

## Mobile First



## Desktop First



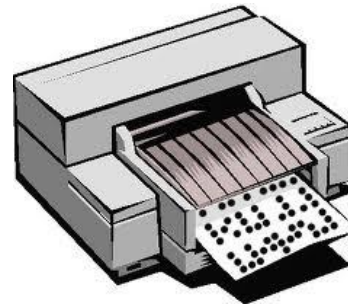
# Media Query

**CSS2.1**



**media type**

- **screen**
- **braille**
- **print**
- **tty**
- **embossed**



# Media Query

**media type: screen**



# Media Query

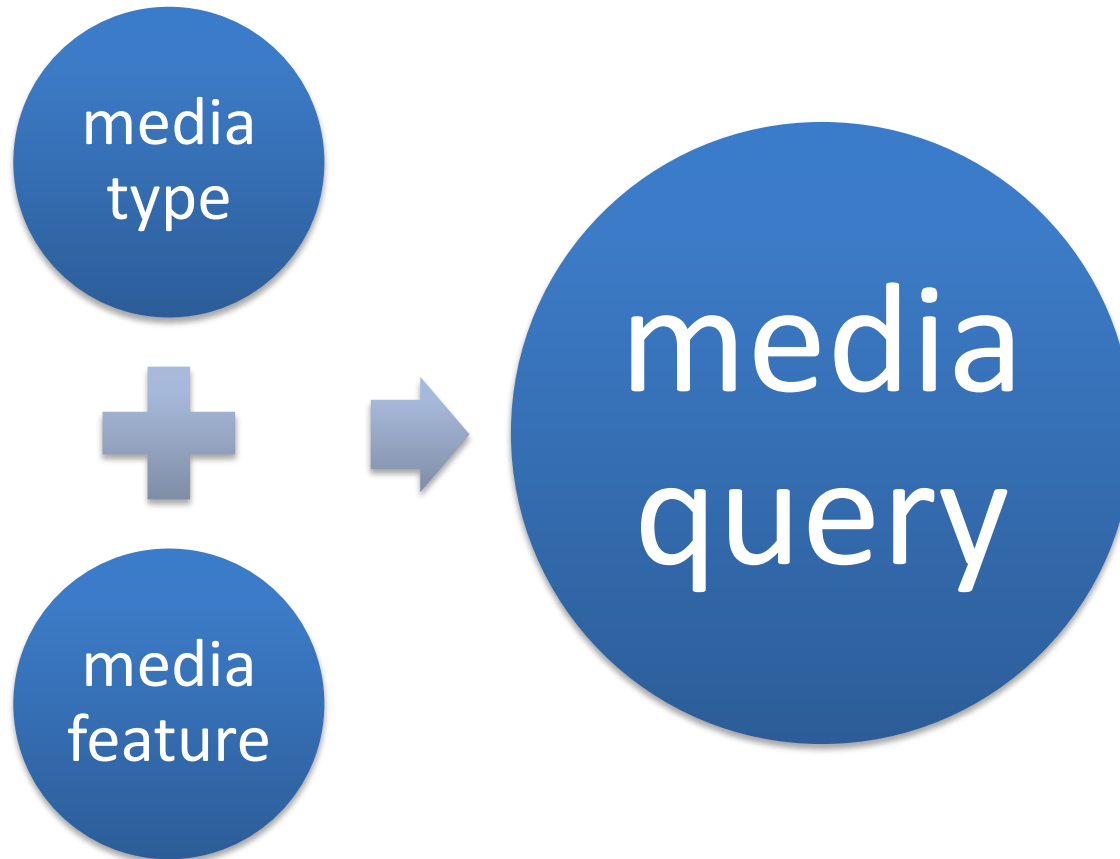
**CSS3**



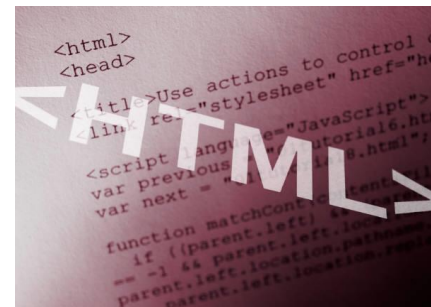
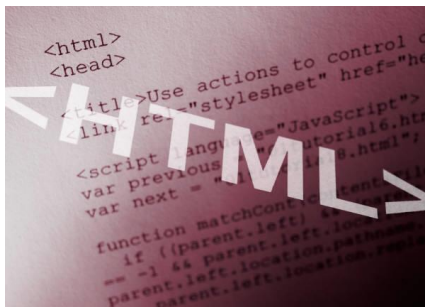
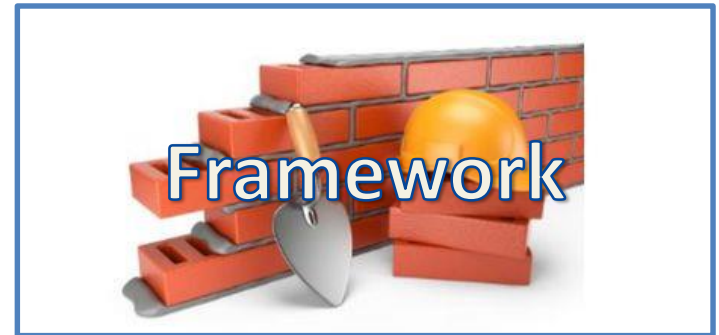
**media feature**

- **width**
- **height**
- **aspect-ratio**
- **orientation**
- **color**
- **resolution**

# Media Query

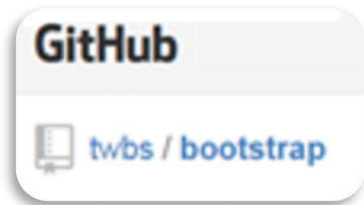


# Bootstrap



# Bootstrap

## Open Source

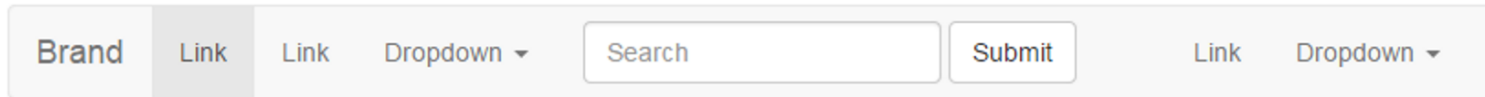


## Mobile First



# Bootstrap

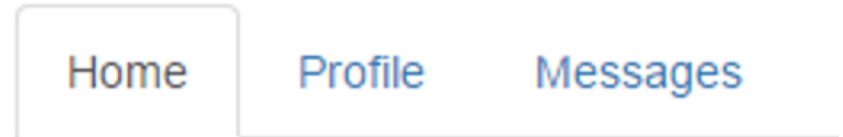
## Navbar



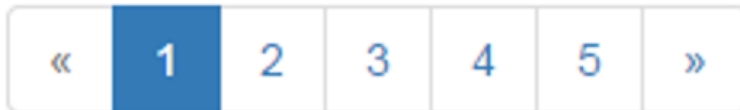
## Toolbar



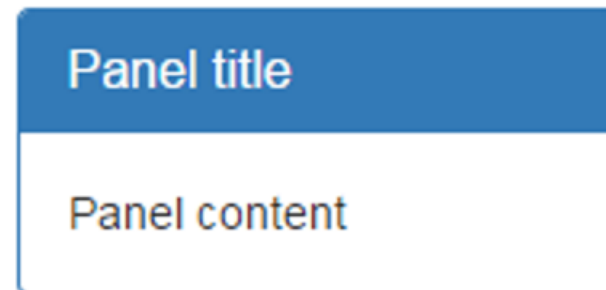
## Tabs



## Paginator



## Pannelli

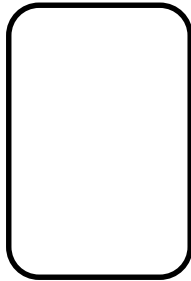


## Altri ancora...



# Bootstrap

**xs**



**↔ < 768px**

**sm**



**768px ≤ ↔ < 992px**

**md**

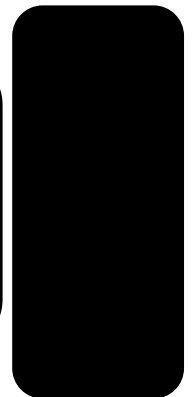


**992px ≤ ↔ < 1200px**

**lg**



**1200px ≤ ↔**



# Bootstrap



# Framework Quix



Progetti



Esperienza



Tempo



Framework

genera

Applicazioni

Funzioni base

definisce  
fornisce

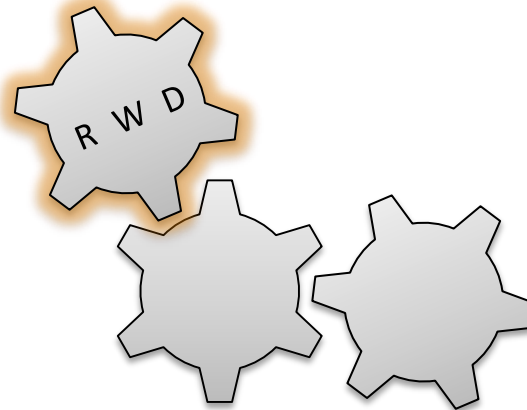
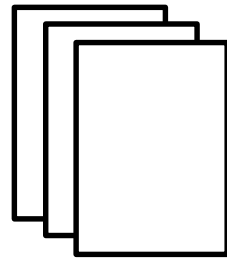
Standard e modelli  
aziendali

Struts<sup>2</sup>



maven

# Restyling Framework



# Conclusioni



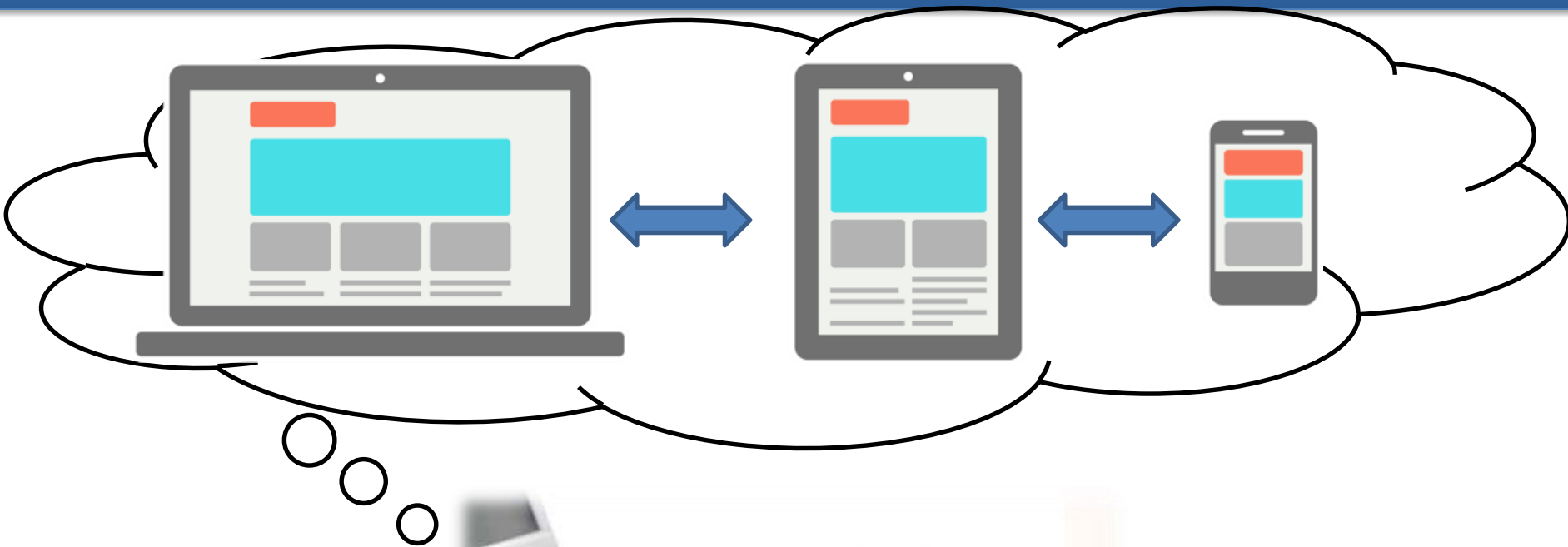
@media



**Responsive**



# Conclusioni



# Conclusioni

- **Maggiori tempi di sviluppo**
- **Platea di utenza ampia**
- **Maggiore preparazione sviluppatori**



**Maggior valore economico**

**+20-50%**

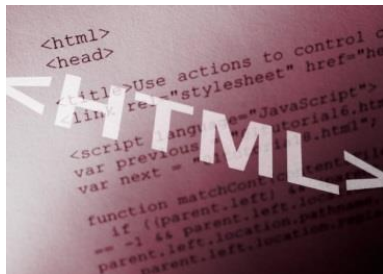


# Conclusioni

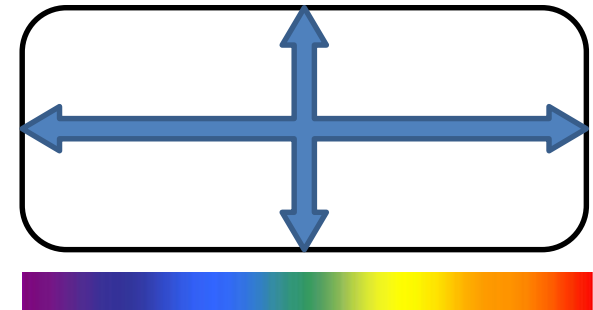




# Sviluppi Futuri



media query level 3



media query level 4

**Grazie dell'attenzione**