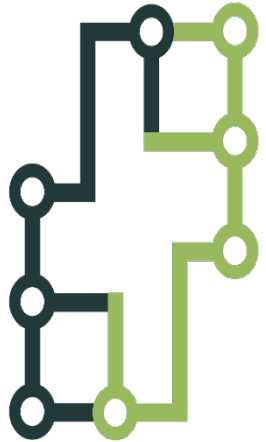




Gnafuy

資管三	102306070	沈汶萱*
資碩二	103356039	陳晉杰
資碩二	103356041	褚宣凱
資碩一	104356019	邱垂暉
資碩一	104356041	李佳倫
資管三	102306088	楊碩礪

Overview - Gnafuy



Gnafuy

- Gnafuy is a **mobile computing framework** for building highly concurrent, distributed, and resilient message-driven applications with the following feature:
 - Simple Concurrency & Distribution
 - Generality
 - Ease of Use
 - Crowdsourcing



Resource

Split Alg

Mapper

Reducer

Scenario - Online Voting

● International Saimoe League

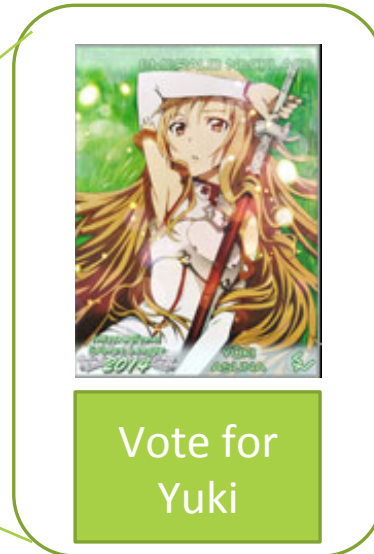
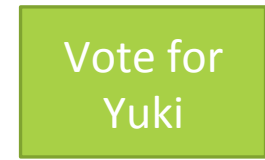


Vote for
Yuki



Pattern applied - Fire and forget

```
val voteForYuki = new  
VoteForYuki  
    implements FireAndForget() {  
    @Override  
    public void fire() {  
        //open browser,  
        //vote for Yuki  
    }  
};  
Gnafuy.resource(Empty).map(  
    task = voteForYuki,  
    expectedNumber = 200,  
    payment = 5000,  
    defaultPic = "lovelyYuki.png"  
)
```



Pattern applied - Fire and forget(Auth)

```
val voteForDavis = new VoteForDavis
implements FireAndForget with Auth {
  @Override
  public void fire() {
    //open browser,
    auth()
    //vote for Davis
  }
  @Override
  public void auth() {
    name = readName()
    password = readPassword()
    verify(name,password)
  }
};
```



Pattern applied - SoLoMo

● Ballyhoo

```
val ballyhoo = new Ballyhoo
    implements FireAndForget
    with RequiredLocation
    with RequiredDate {
    @Override
    public void fire() { //send a request to Gnafuy }
    @Override
    public boolean location() {
        ((Location(55,66) + 1 miles)
            includes this.gpsLoc
        }
    public boolean date() {
        new Date(2015/01/17) +- 5 minutes
            includes this.time
        }
    }
};
```



Pattern applied - SoLoMo

```
Gnafuy.map(  
  task = ballyhoo,  
  expectedNumber = 5000,  
  payment = Payment.unlimited,  
  defaultPic = "5566.png",  
  location = Location(55,66),  
  interval = Interval(  
    start = 2015/01/17 18:00,  
    interval = 5 minutes  
  )  
)
```

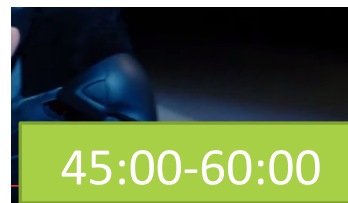
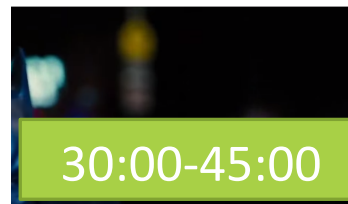
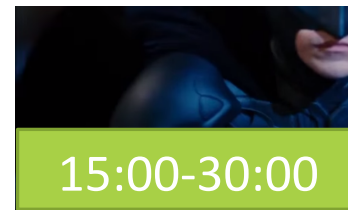
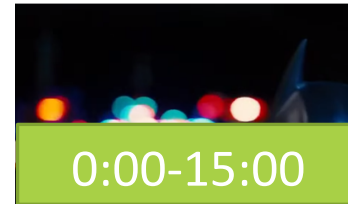
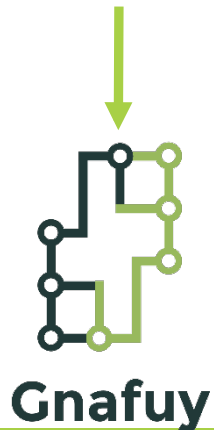
5566
ballyhoo



!!!!!!
click for \$5
!!!!!!

Pattern applied – Classical Map Reduce

● Subtitle translation



I am batman.



This is a pen.



This is a book.



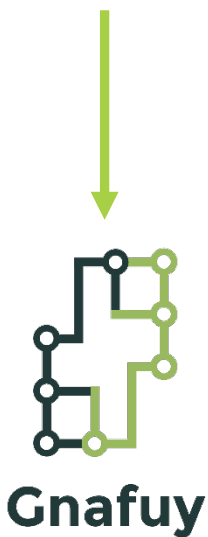
Anyway, I am batman.



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<DATELINE>CHICAGO, March 2 - </DATELINE><BODY>The American Pork  
Congress kicks off tomorrow, March 3, in Indianapolis with 160  
of the nations pork producers from 44 member states determining  
industry positions on a number of issues, according to the  
National Pork Producers Council, NPPC.  
Delegates to the three day Congress will be considering 26  
resolutions concerning various issues, including the future  
direction of farm policy and the tax law as it applies to the  
agriculture sector. The delegates will also debate whether to  
endorse concepts of a national PRV (pseudorabies virus) control  
and eradication program, the NPPC said. A large  
and high-tech program, in conjunction with the congress, will feature  
the latest in technology in all areas of the industry, the NPPC  
added. Reuter  
</BODY></TEXT></REUTERS>
```

Pattern applied

- Map Reduce with correction



(No subtitle) * 1



(No subtitle) * 1



(No subtitle) * 1



WJWang's debut * 5

Master of WIWang



Gnafuy

correction

```

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<DATE> 2-MAR-1987 16:51:43.42</DATE>
<TOPICS><D>livestock</D><D>hog</D></TOPICS>
<TITLE>AMERICAN PORK CONGRESS KICKS OFF TOMORROW</TITLE>
<DATELINE> CHICAGO, March 2 - </DATELINE><BODY>The American Pork Congress, which opens in Chicago today, will feature 60 of the industry's top executives from 16 member nations taking industry positions on a number of issues, according to the National Pork Producers Council, NPPC. Delegates to the three day Congress will be considering 26 resolutions concerning various issues, including the future direction of farm policy and the tax law as it applies to the agriculture sector. The delegates will also debate whether to endorse concepts of a national PRV (pseudorabies virus) control and eradication program, the NPPC said. A large trade show, in conjunction with the congress, will feature the latest in technology in all areas of the industry, the NPPC added. Reuter
&#3; </BODY></TEXT></REUTERS>
    
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WJWang's debut