# Meme Mining for Fun and Profit

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DefCon 13

#### 3-Part Presentation

- ◆ Tactical MemeMiner Parlor Tricks
- Operational S-curve theory
- Strategic Social Bandwidth

#### Dot Com Crash Continues?

Recent layoffs in 2005

1BM - 13,000

Sun – another 5%

GM - 25,000

GE - "reorganization"

Alcoa - 6,500

Winn Dixie - 22,000

Lear -7,700

Hypercom

BMC

Krispy Kreme

Cray

DHL

American Express

#### What To Do?

- Your time and effort are finite.
- The IT market changes constantly.
- What skills should you focus on?
- A mistake can be costly.

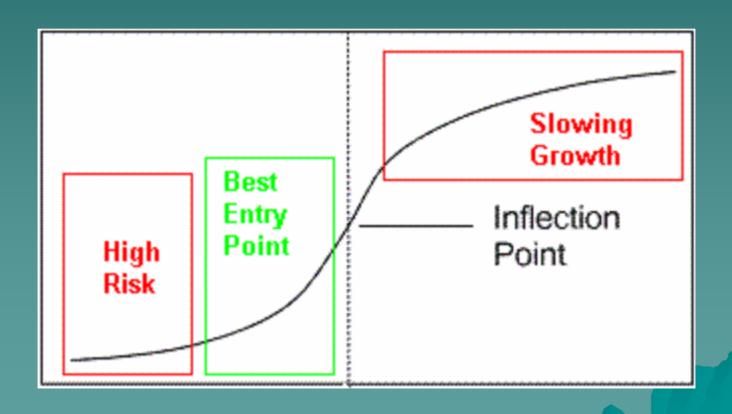
#### Me

- Why should you listen to me?
- Hacked some systems prior to 1991



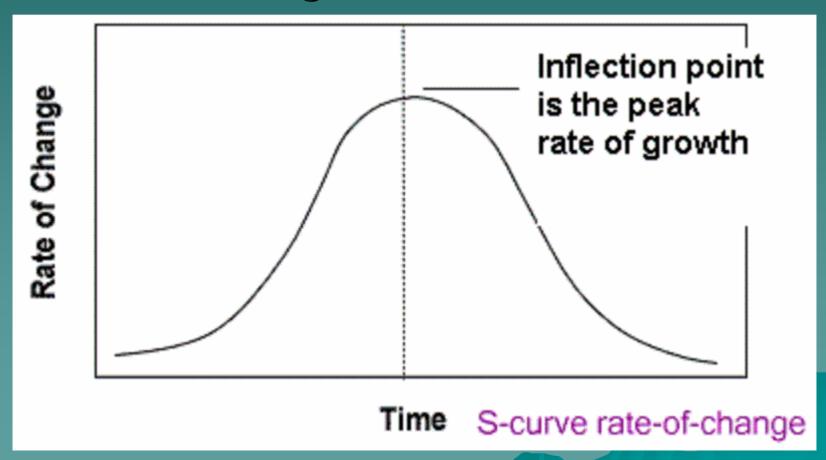
#### S-Curve

Fundamental business function



#### S-Curve

Rate of change in normal curve

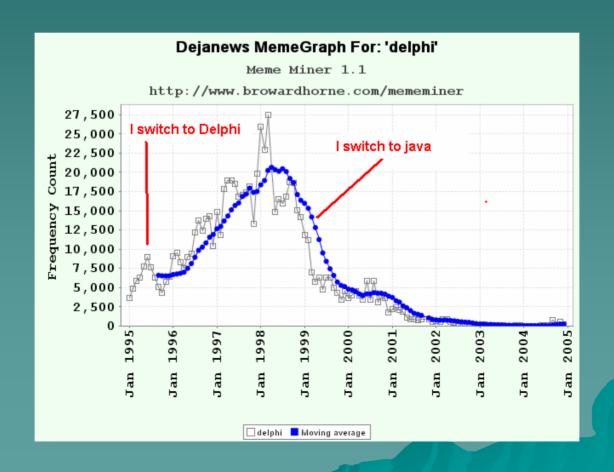


# Meme Mining Theory

- Frequency count is proxy for S-curve
- Monitor technical trends
- Ride the S-curve

# Example

Delphi Programming Language

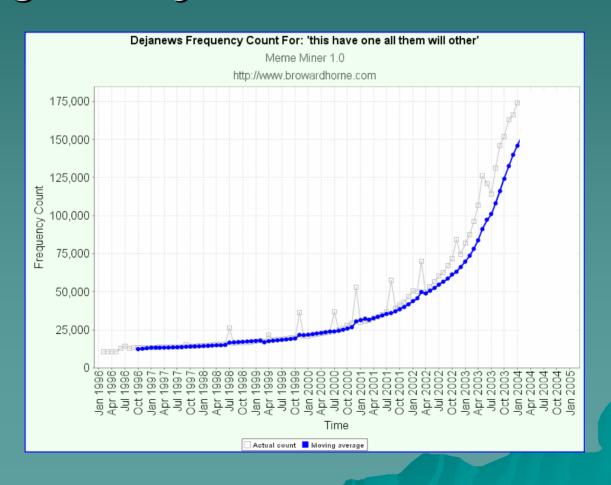


#### Meme Miner

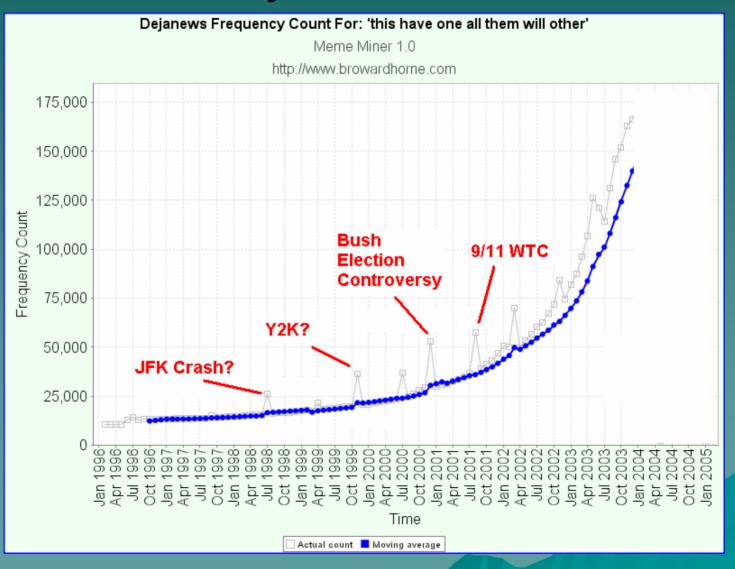
- Simple java program
- Executes sequential queries
- Builds chart with query results

# DejaNews Frequency Count

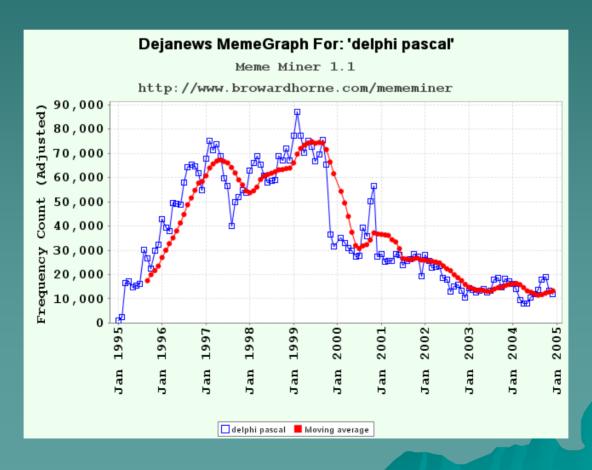
Rough Proxy for Internet Growth



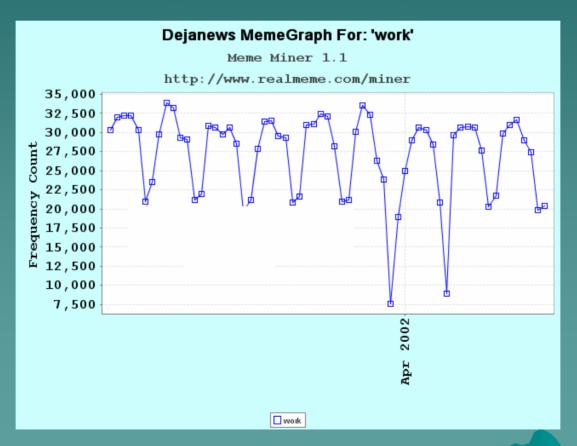
#### Major Events



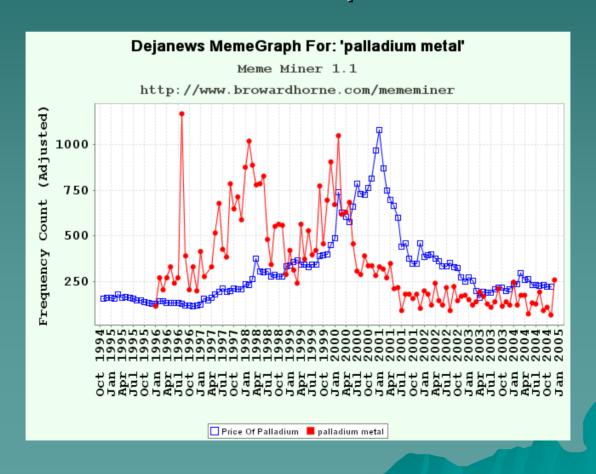
#### Delphi



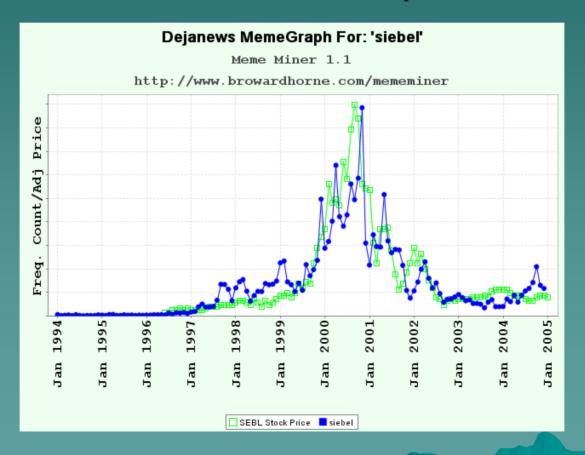
Work – can you identify the pattern?



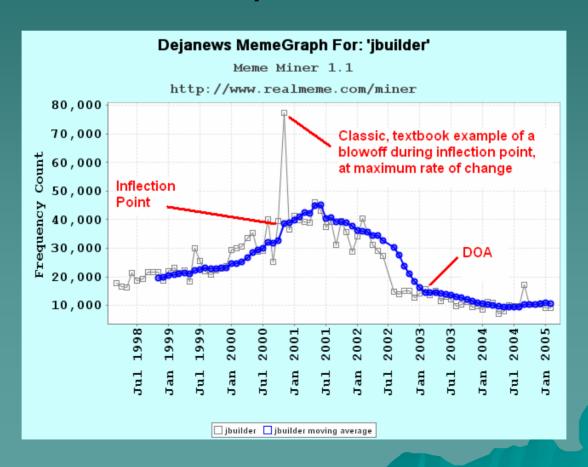
Palladium – rumors precede rise



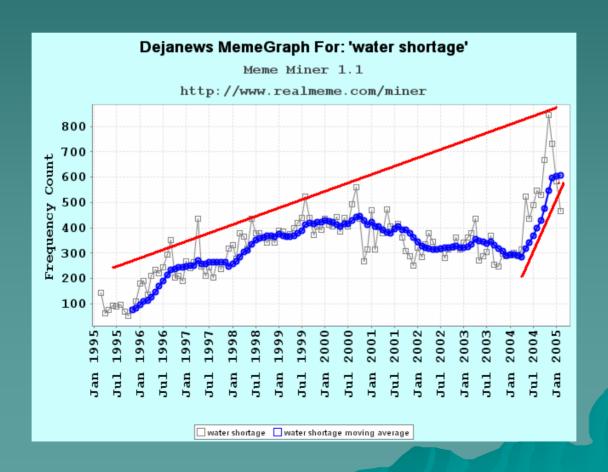
Concurrent with stock prices



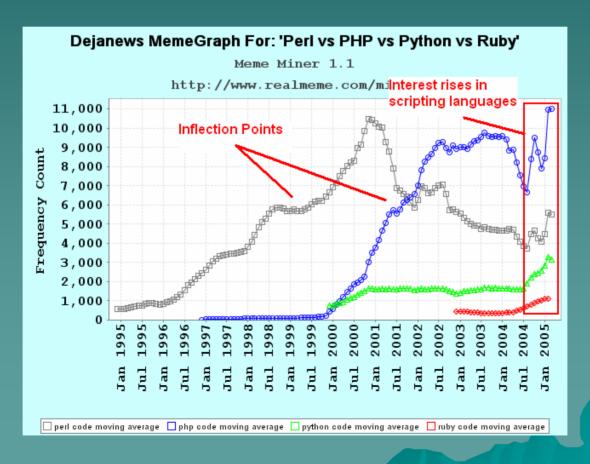
Classic S-curve points of interest



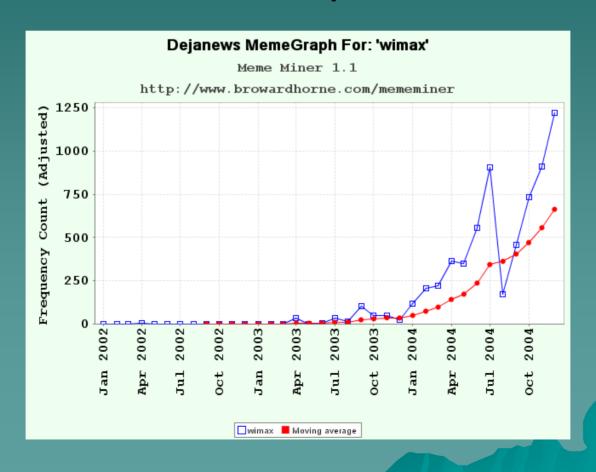
Water shortage



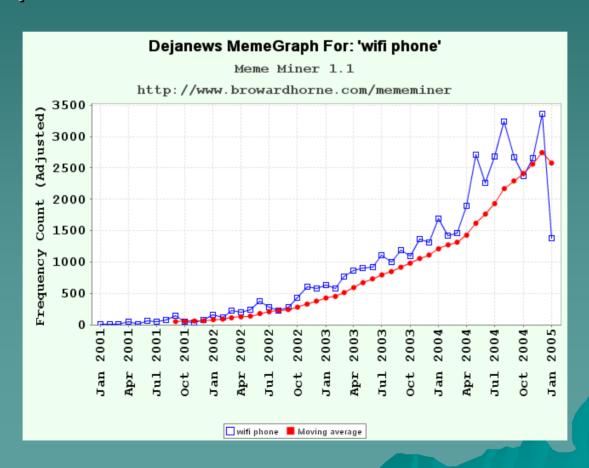
Trends in Scripting Languages



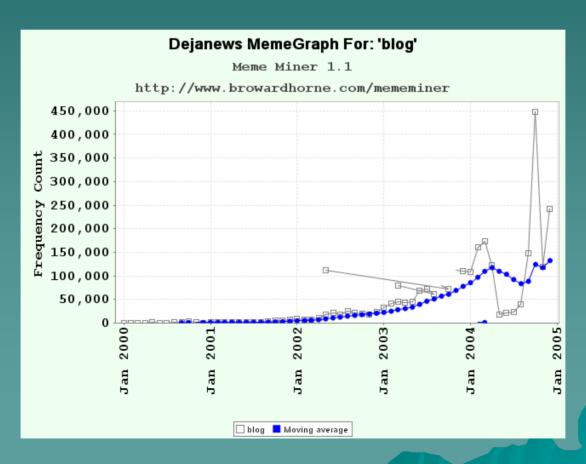
WIMAX about to explode?



Wi-fi phone is hot



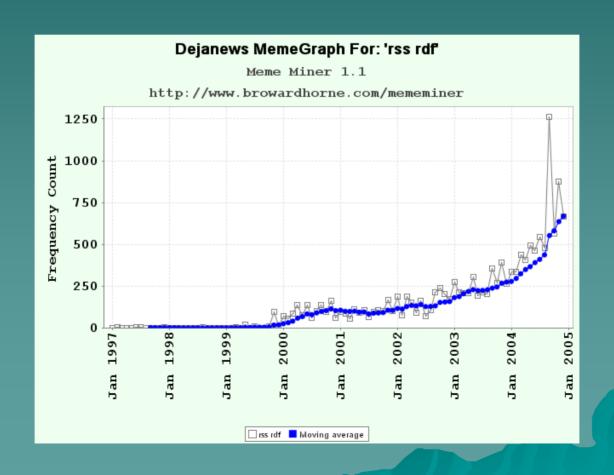
◆ Blogs (27% don't know what it is)



- Inflection tends to be at 50% point
- Inflection point is maximum hysteria

What can we predict about "blogging"?

#### RSS Feeds



#### Miner Deficiencies

- Requires knowledge of trend to test
- Subject to manipulation
- Not statistically rigorous
- Dependent on good keywords
- Works poorly for non-technical trends

#### Potential Improvements

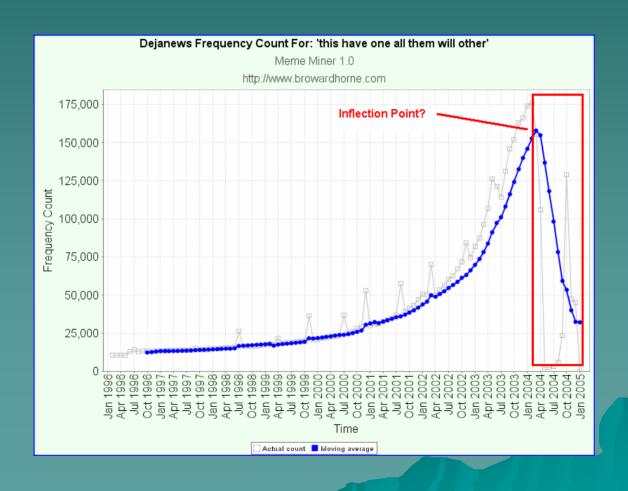
- Use RSS feeds to catch trend earlier
- Skewing factor for search engines
- Extract more abstract relationships

#### Internet S-Curve

- Has Internet Growth peaked?
- What happens if growth peaks?

# DejaNews Anomaly

Market saturation?

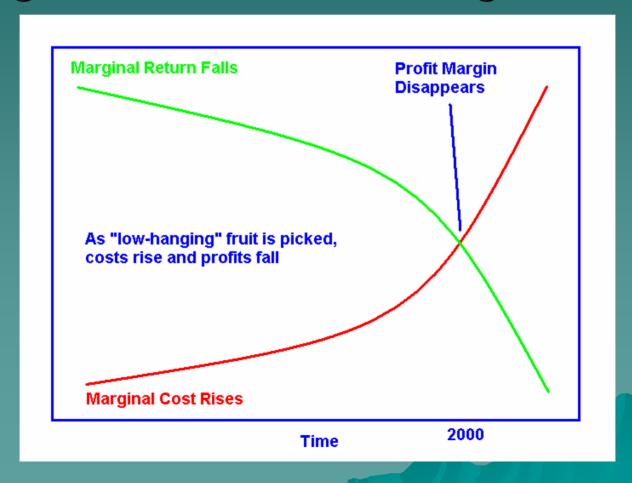


#### Social Bandwidth

- People have finite bandwidth
- People have finite storage
- Shared context impacts bandwidth

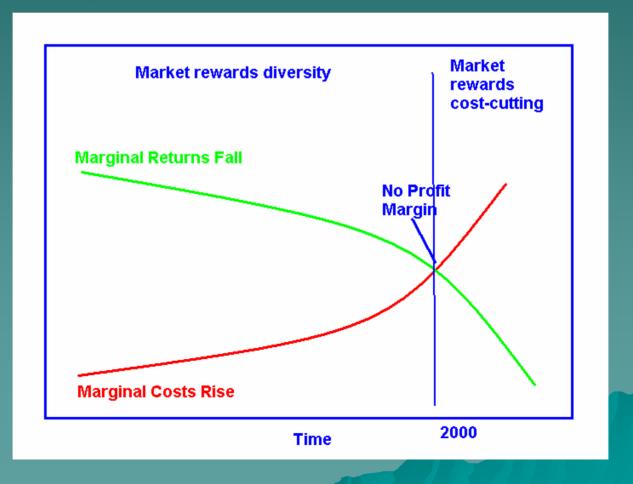
#### Cost of Information

Marginal Cost versus Marginal Return



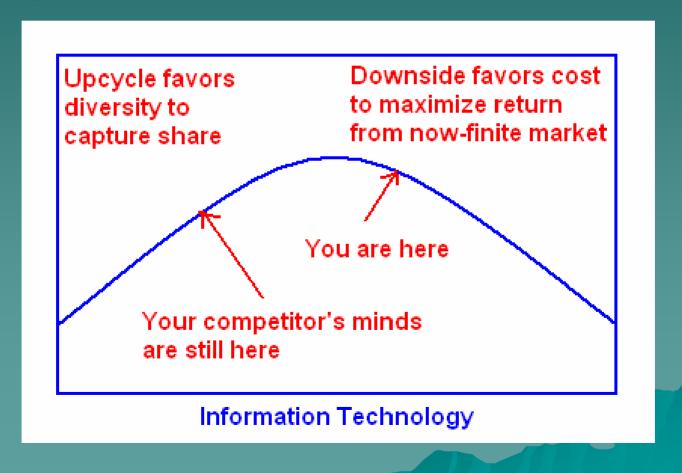
#### Cost Versus Price

Diversity versus Cost



# IT Trend Change

Marginal cost exceeds return



# Other Signs

Comdex shows no recovery

