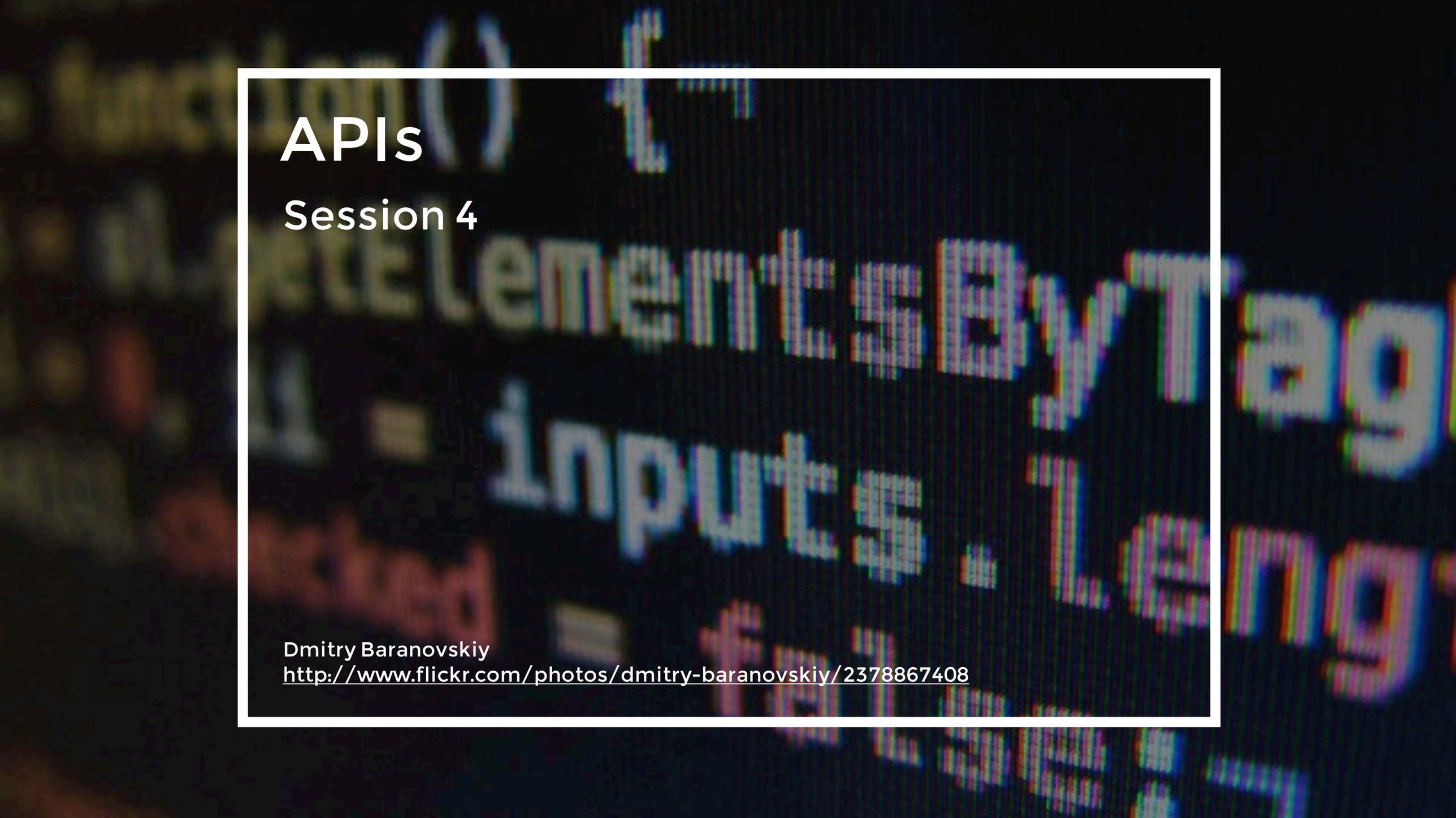
Web as a medium

Creative Coding 2012

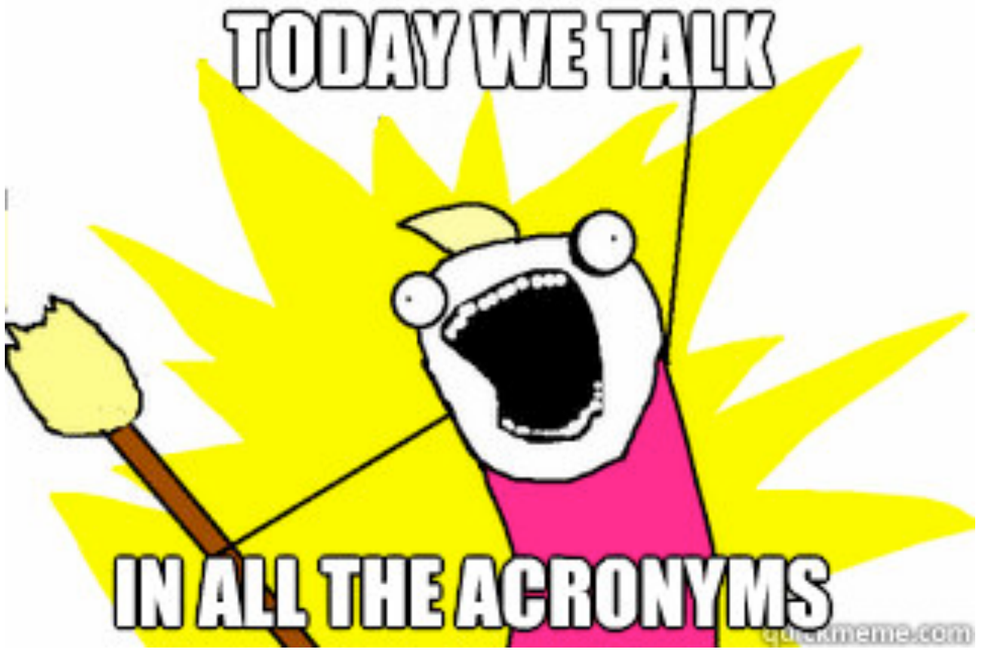
@ntlk
http://ntlk.net

APIs

Session 4



Dmitry Baranovskiy
http://www.flickr.com/photos/dmitry-baranovskiy/2378867408


TODAY WE TALK
IN ALL THE ACRONYMS

APIs

Application
Programming
Interface

An application programming interface is a protocol intended to be used as an interface by software components to communicate with each other

http://en.wikipedia.org/wiki/API

Content that is created in one place can be dynamically posted and updated in multiple locations on the web

http://en.wikipedia.org/wiki/API

APIs are the next generation's cardboard box.

http://webponce.com/rants/2012/11/apis-are-our-next-generations-cardboard-box/

Give a child a cardboard box, and she'll make a house, a rocket, a horse, a fort, a car, a cave, an oven, a container, a hat, and eventually a crumpled mess.

http://webponce.com/rants/2012/11/apis-are-our-next-generations-cardboard-box/

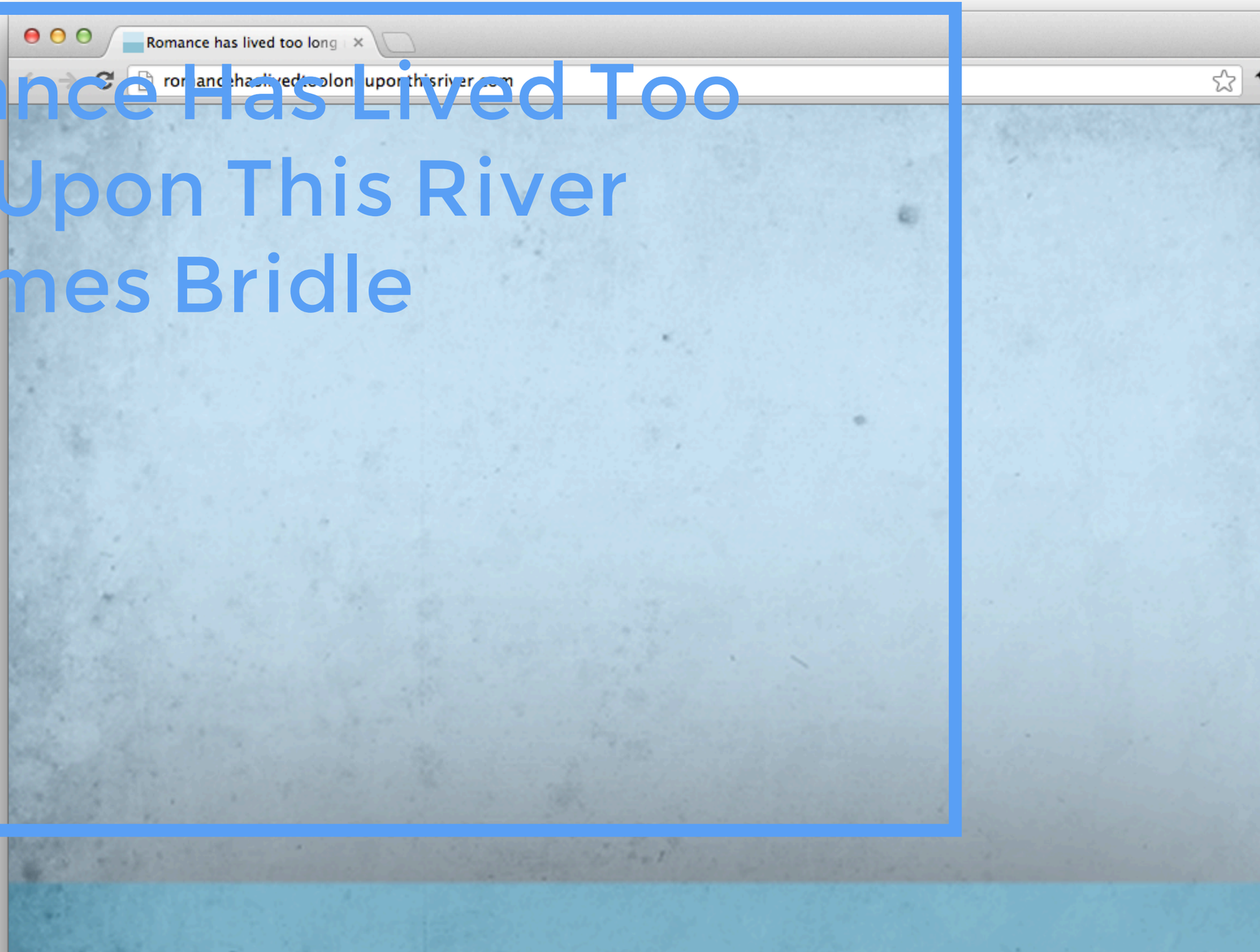
Give a developer an API, and she'll make untold numbers of new forms of the functionality and content you've provided.

http://webponce.com/rants/2012/11/apis-are-our-next-generations-cardboard-box/

Data necklace by Stef Lewandowski

http://datanecklace.com/

Romance Has Lived Too Long Upon This River by James Bridle



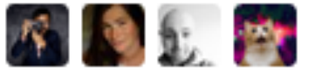
Robot Flâneur
by James Bridle

Rev Dan Catt @revdancatt 18h

Quick lunchtime Flickr API check, 33,191 photos uploaded with new App, 15% with filters, 85% without, Mammoth most popular filter.

Collapse Reply Retweet Favorited ••• More

3	2
RETWEETS	FAVORITES



1:51 PM - 13 Dec 12 · Details

Reply to @revdancatt

Rev Dan Catt @revdancatt 18h

Top 5 Flickr app filters: Mammoth: 1332, Chameleon: 631, Panda: 354, Aardvar: 337, Iguana: 296

Collapse Reply Retweet Favorited ••• More

2	2
RETWEETS	FAVORITES

1:53 PM - 13 Dec 12 · Details

Reply to @revdancatt

Public / Private

HTTP
HyperText
Transfer
Protocol

HTTP Requests

REST

REST
Representational
State
Transfer

Style of software architecture for distributed systems such as the World Wide Web.
REST has emerged as a predominant Web service design model

http://en.wikipedia.org/wiki/Representational_state_transfer

GET

GET

POST

GET
POST
PUT

GET
POST
PUT
DELETE

GET

POST

PUT

DELETE

retrieve

GET	retrieve
POST	create
PUT	
DELETE	

GET	retrieve
POST	create
PUT	update
DELETE	

GET	retrieve
POST	create
PUT	update
DELETE	delete

GET request
Broadcast Yourself
UK | English
Home
Videos
Channels
Community

JSON

JSON
JavaScript
Object
Notation

Text-based open standard designed for human-readable data interchange

http://en.wikipedia.org/wiki/JSON

```
{
  result: {
    tweet: "hello there",
    timestamp: "Fri 14 Dec 2012"
  },
  author: "Nat"
}
```