

I am a psychology degree holding, graphic and data designing, professional online poker playing, user experience designer.

My background in graphic design and statistics, combined with programming custom algorithms, allow me to solve new problems and convey the answers in a visually understandable way.

The experience I've gained telling stories through visual elements, combined knowing how data describes behavior allow me to communicate complex information in a visually meaningful way. Basically; I make complex information simple.

My experience and skills are listed in more detail on the next page.

PORTFOLIO: ZACKDESARIO.COM

ZACK DESARIO

EXPERIENCE DATA FELLOW, ZIPFIAN » PRESENT

- Completed a three month data science bootcamp with curriculum focusing on full stack of data science development.
- Built products using Machine Learning algorithms and interactive visualization frameworks.
- Used Natural Language Processing to create a content classifier for the The New York Times on every article they ever published.
- Built a recommendation engine for Amazon.
- Learned near mastery level of Python coding language including the libraries most used in data science work today.

ONLINE POKER PROFESSIONAL, THE WORLD » 2009-2014

- Created a mathematically profitable strategy by through statistical algorithms and data-mining.
- Ranked #5 in Total Profit for High Stakes 9 Man Online Poker Tournament
- High multitasking ability demonstrated by playing 8-16 games of poker simultaneously.
- Traveled through every continent (excluding Africa and Antarctica).
- Donated \$5,000 and raised \$5,000 more for a Hillside tribe orphanage in Thailand.

DATA / GRAPHIC ARTIST, FREELANCE » FREELANCE / VOX MAGAZINE 2006-PRESENT

- Network Analysis designs for Columbia University's Department of Epidemiology annual report cover.
- Designed editorial stories for art and history based magazine in the Hamptons named VOX Hamptons.
- Implemented advanced photo retouching and color correction by numbers.
- Met strict publishing deadlines with a limited staff.

USER EXPERIENCE DESIGN APPRENTICE. TRIFACTA

- Three month UX position developing a GUI for cleaning big data files for 'dummies'.
- Worked in a face pace successful startup environment during the V1 launch.
- Efficiently communicated with back-end Hadoop engineers to product facing user base.

EDUCATION

USER EXPERIENCE DESIGN PROGRAM » GENERAL ASSEMBLY SUMMER 2013

- Completed a three month intensive teaching best practices of current UX frameworks.
- Studied start to finish UX practices from initializing user needs, to wire-framing, and rapid prototyping.

DATA VISUALIZATION WORKSHOPS » NYC, 2012-2013

- Studied advanced techniques of Processing for data visualization with NY Times Data Artist in residence, Jer Throp.
- Attended 3D printing for data visualizations workshop with creative coder, Marius Watz.
- Practiced data and information display with Edward Tufte's NYC studio.
- Up to date knowledge of current data visualization coding language, algorithms, and best practices.

BACHELOR OF SCIENCES. PSYCHOLOGY DEGREE

College of Charleston, Charleston, SC » BACHELOR OF SCIENCES / PSYCHOLOGY | 3.5 GPA

- Concentration in neuroscience of psychology, psychological statistical, and research methods.
- President of the college's Cognitive Research Team in 2006.

SKILLS Near mastery level in Python, including most popular data science libraries such as Scikit-Learn, Pandas, SciPy, MatplotLib. Gephi Exploratory Data Analysis Software, and d3 for advance data visualizations.

Mastery level of Adobe Photoshop, InDesign, Illustrator, Bridge, Camera Raw, and Gephi Exploratory Data Analysis Software. Intermediate skills in Processing (JAVA), HTML5, CSS3, FontAgent Pro, Google Map's API, Google Chart Tools, QGIS. Expert with CSV, XML, JSON, KMZ, SHP, EPS, SVG, GDF, GML data files & all pixel and vector based image files.

Print production knowledge with experience on-press. Published Photographer.

RECOGNITION

American Graphic Design Award 2008.

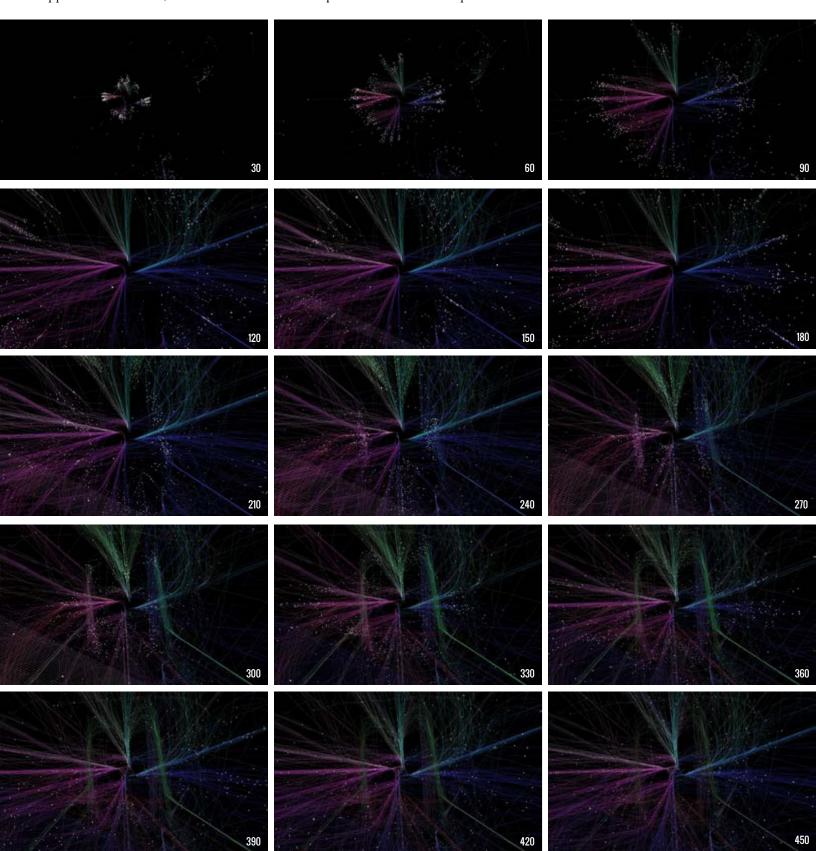
Ranked #5 Total Profit for High Stakes 9 Man Online Poker Tournament (2010)

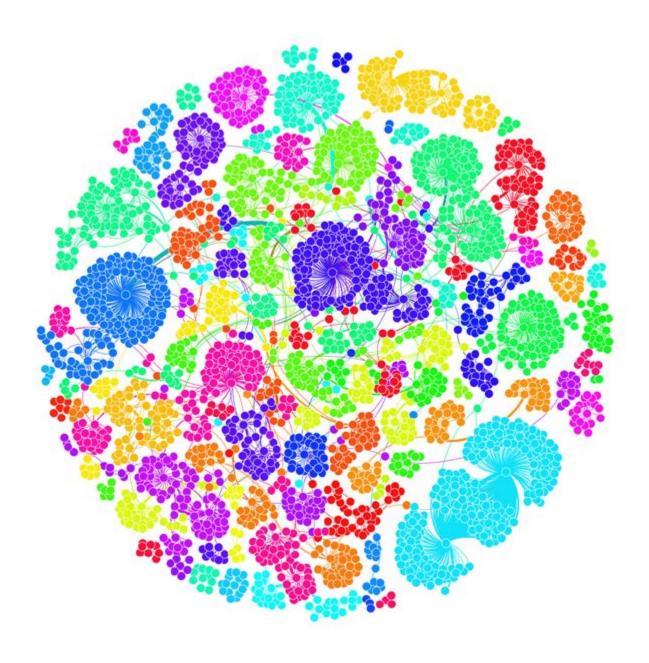
2860 CALIFORNIA STREET APT. 11 SAN FRANCISCO, CA 94115 516-658-5138 ME@ZACKDESARIO.COM MORE FUN STUFF AT: BEHANCE.NET/DATATIME & ZACKDESARIO.COM

DENVER INTERNATIONAL AIRPORT 9 HOUR AIR TRAFFIC SUMMARY

The visualization below isn't just a visualization, it's a piece of software really. Developed in a Java language for visual artists called Processing. The following was created with a 24—hour flight log from Devner Airport of all planes landing and taking off. Processing is great because you can substitute any number with another number. I know that sounds strange, however, what that means is you can take the x, y, and z coordinates of the plane, and place those numbers into the R, G, and B values, which is what you are seeing below. Planes traveling North are green, East are blue, South are Purple, and West are Magenta. To see the application in action, I created a 1 min video clip. at zackdesario.com/planes.





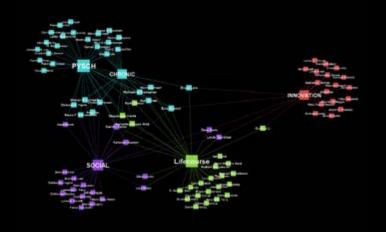


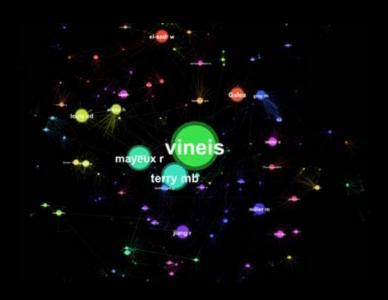
COLUMBIA UNIVERSITY DEPARTMENT OF EPIDEMIOLOGY 2012 ANNUAL REPORT COVER IMAGE

Creating this graphic was an honor for me because the whole field of epidemiology was birthed from an infographic (John Snow's 1854 mapping of Cholera outbreaks in London). In addition, the epidemiology department at Columbia is the top program of it kind. Dr. Sandro, the head of the department, wanted something visually interesting, yet told a story about their developments for the year. Paul Edros, was the first name that came to mind. I created a list of papers the department published, extracted the author and coauthors. Once that data was sorted, I began running different partitioning algorithms against who was writing with who. The nodes in the center are those who collaborated greatly, thus are deeply connected. To see a video watching the algorithm at play, please go to zackdesario.com/epi.

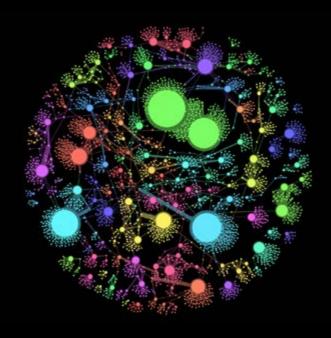


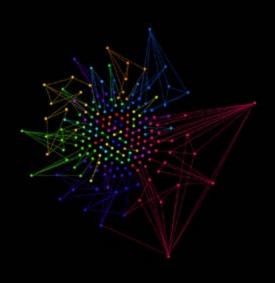




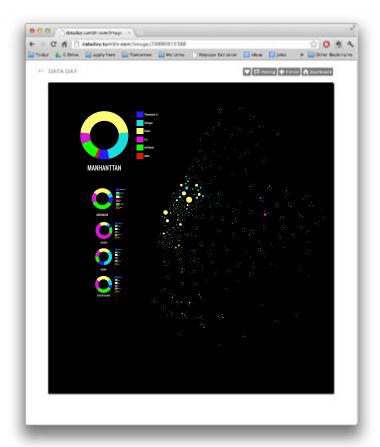


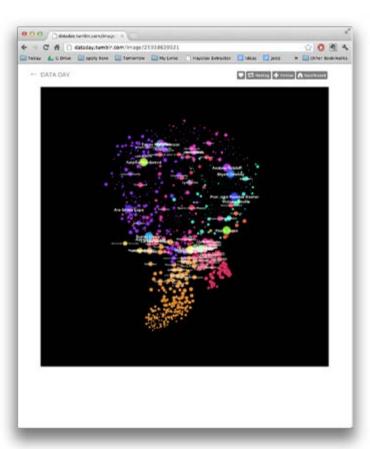


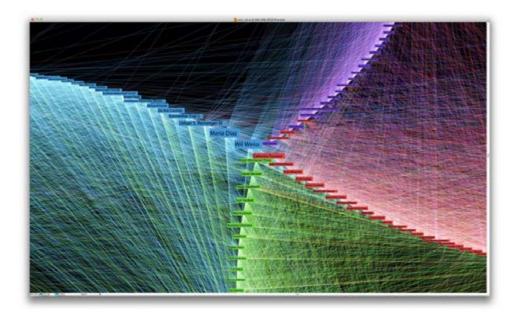


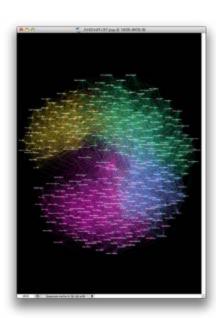


DATA DESIGN CONT...





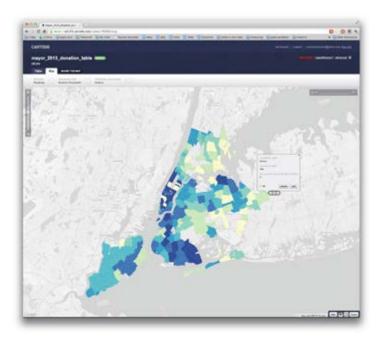




INTERACTIVE AND DATA RICH MAPS

The map on the top I created using cartoDB. It maps the amount of money each zip code donated to Christine Quinn. She is running for mayor of NYC in 2013. I created the color scheme by using a very handy tool developed by Cynthia Brewer called ColorBrewer. It is a fun tool that helps you create gradients for data maps based on all sorts of things. It even has a color-blind safe mode which I thought was very considerate.

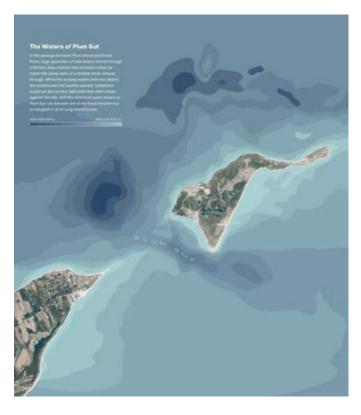
The map on the bottom is of each and every county in the United States. It is a KML shape file. A KML file is what Google maps uses. They are easy to work with and very flexible. The data is pretty erroneous, but can be filled with any data set, by anyone, anywhere (as long as they have the secret code to unlock the file).





ILLUSTRATED MAPS

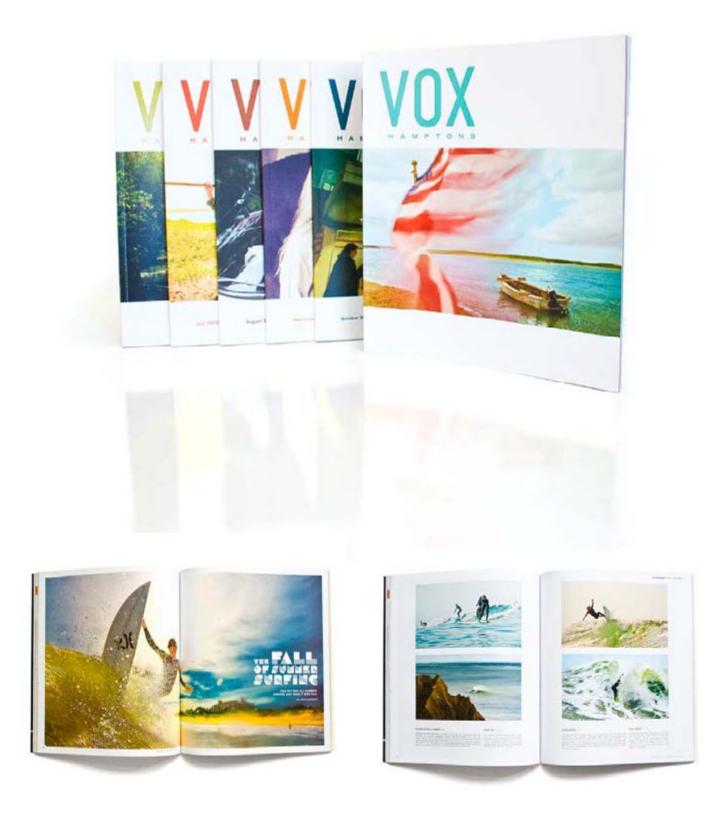
These are vector image maps I created in Adobe Illustrator in which I was able to flex my illustration skills. They aren't very data rich, but I think they demonstrate my inner painter. The map on the top I created for a story about the dangerous Plum Gut off of Long Island, NY. In the article, the author wrote the main reason the waters are so rough is because of a sinkhole just north of the cut. I figured, it would be easy and fun to visualize this, and really help the reader get a sense of the dynamics. The map on the bottom is less fun, and although it came out looking pretty pretty, its really just a map of Halloween attractions in the Hamptons.





EDITORIAL DESIGN

As the graphic artist for VOX Hampotns magazine, I had a wide range of responsibilities and even wider range of creative freedom. It was a great place to practice visual story telling, and working with tight deadlines. In addition, I discovered that I am a fairly talented copy writer, a skill I never knew I had.



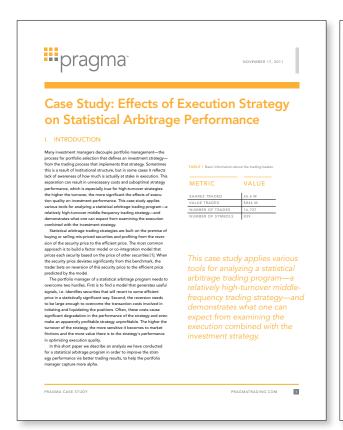


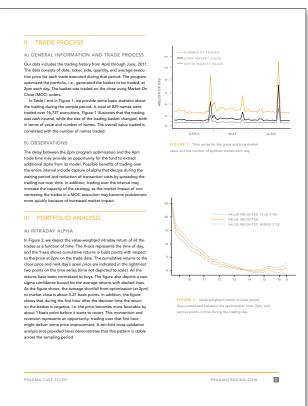


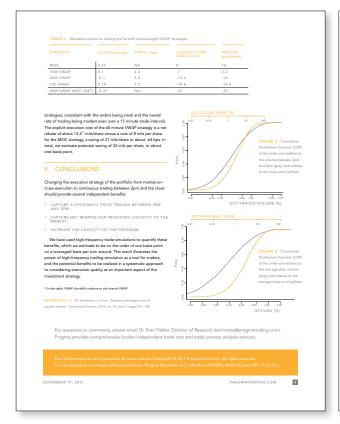


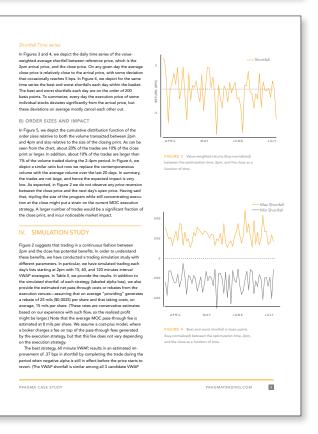
CASE STUDY REPORT DESIGN AND HIGH ACCURACY GRAPHING

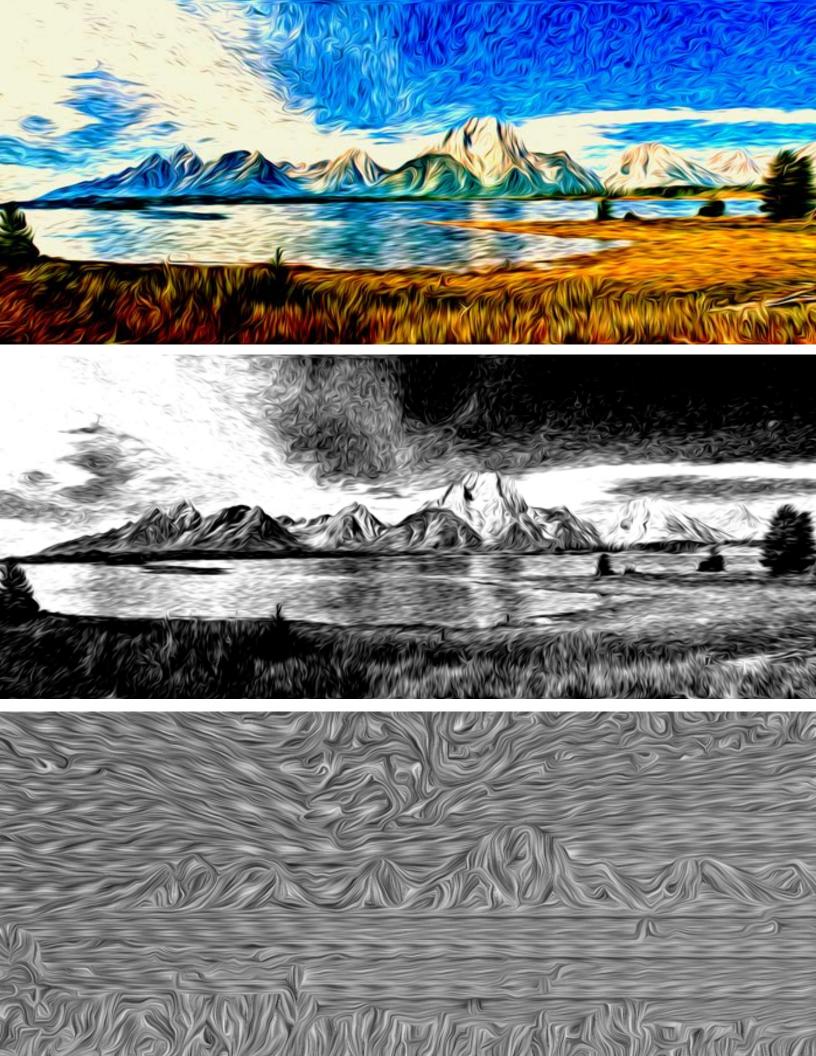
Pragma is a company that does very odd mathematical stock hedge fund trading stuff. It is interesting to design, because their graphics are usually lively and high-resolution containing up to 15,000 points per graphic. Sometimes, I just wonder, if they put their energy into solving problems that didn't only have to do with monetary gain, what could they come up with?

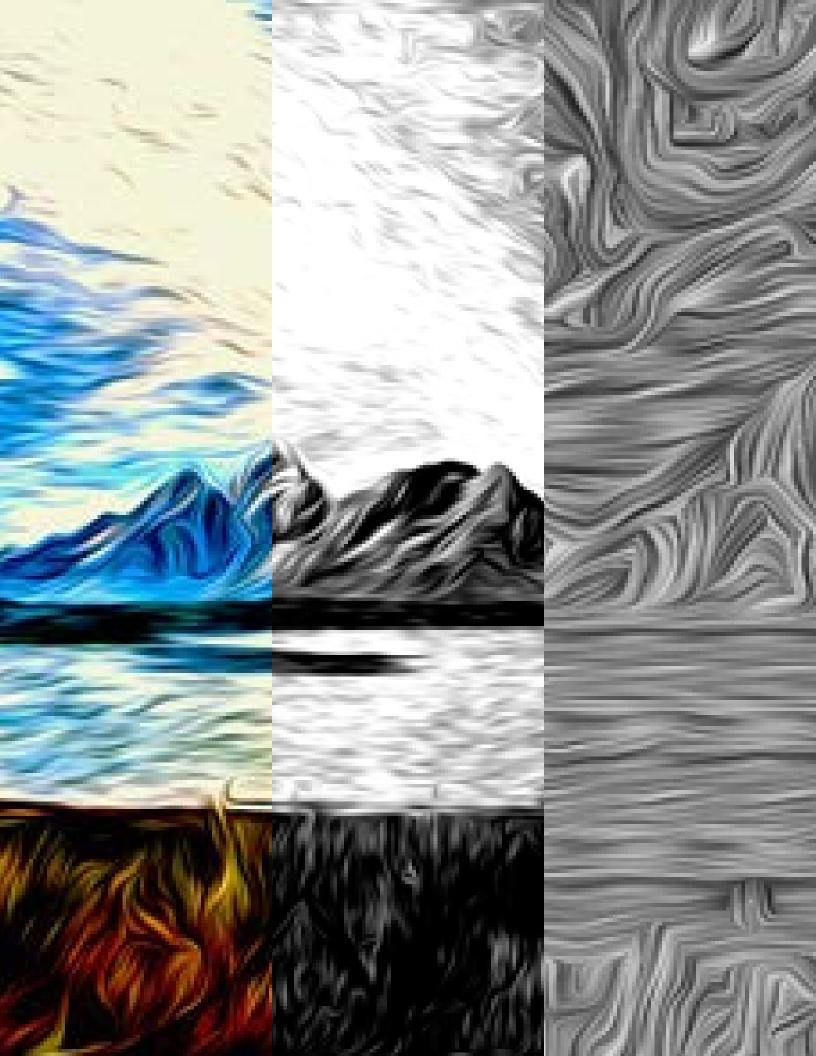












RANDOM SHEET

The previous two pages, the ones with the pretty mountains, was a project I created as a present for my pops. The images were constructed by photographs I took while on a family vaycay to the Grand Tetons. I stitched the five individual images together to get a panorama, did some color correction candy coating, then ran it through a pixel bender algorithm I found. After some customization with the code, the results were quite nice.

The following images are just more layouts and designs I threw in for good measure.

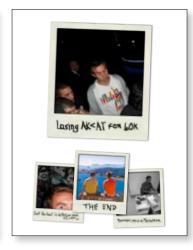


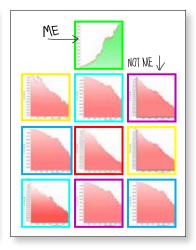




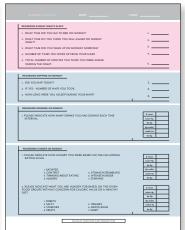












THE END

Please don't be sad... there is much more to see at: zackdesario.com