Anne Gates
Design Portfolio

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I am a multidisciplinary graphic designer with a background in sculptural fine arts and a passion for textiles. I'm believe in making big ideas a reality, inspiring others to do more than their best, and am willing to step outside my comfort zone to learn. I appreciate clean, clever design, well-conducted research, and conceptual thinking.

Education

Savannah College of Art & Design
2008-2012 BFA Fiber Arts

Experience

Anne Gates Freelance

Designer | Seamstress
July.2018-Present San Francisco, CA

Design Clients: Radiologics, BlueBee, Bantam Tools, Vera Bradley, Palette SF, Sparkle 'n Fly

Sewing Clients: One Hat One Hand, Vera Bradley

See portfolio for examples of recent projects

Planet

Lead Designer | Design | Rebranding
Nov.2014 - July.2018 San Francisco, CA

Joined as the Marketing Team's second member. Experienced two rebrand processes, one informal/scrappy, and one formal with an agency. Created web, print collateral, trade show, & booth design. Worked against very tight deadlines and supported various teams; Sales, Marketing, Product.

Verba Software

Lead Designer | Rebranding
Sept.2013 - Nov.2014 San Francisco, CA

Brought on initially to update business cards, then expanded design role and responsibilities to overhaul the entire brand. Created new logo, collateral, designed endless t-shirts, cataloged brand assets/guidelines, designed tradeshow booths.

WOOPAAH - A Happiness Company

Design Intern | Happiness Researcher
Jun.2013 - Sept.2013 San Francisco, CA

Worked with an amazing and energizing team, aided in developing new experiences based in creativity and rooted in positive psychology to help others discover their own happiness & productivity. Designed slide presentation for Udemy.

ArtPrize 4 - Grand Rapids Art Museum

Top 100 Artist | Exhibited Motivation in GRAM
Sept.2012 - Nov.2012 Grand Rapids, MI

Personal Design Process

Observe · Research · Sketch · Mock Up · Design

Tools

Apple Products, Adobe Creative Suite, Sketchbook, Drawing Tablet, Sewing Machine, Camera, Potter's Wheel

Skills

Illustrator	●●●●●●●●●●
Photoshop	●●●●●●●●
InDesign	●●●●●●●●●●
Typography	●●●●●●●●
HTML	●●●●
CSS	●●●●
Collaboration	●●●●●●●●●
Self-Motivation	●●●●●●●●●
Problem Solving	●●●●●●●●●●
Attention to Detail	●●●●●●●●●●

Awards & Extracurriculars

CreativeMornings San Francisco Chapter Organizer
2017-Present San Francisco, CA

Interview on Motivation Series, Remeslo | Umenie | Dizajn Magazine
2017 Bratislava, Slovakia

Cooper UX Boot Camp
2015 San Francisco, CA

Founder of Sad Girls Camping Club
2015-Present San Francisco, CA

Member of East Bay Modern Quilt Guild
2014-Present Berkley, CA

Grant from Philadelphia Museum of Art Craft Show
2012 Philadelphia, PA

Palette Gallery Postcard

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Palette
Wine Book

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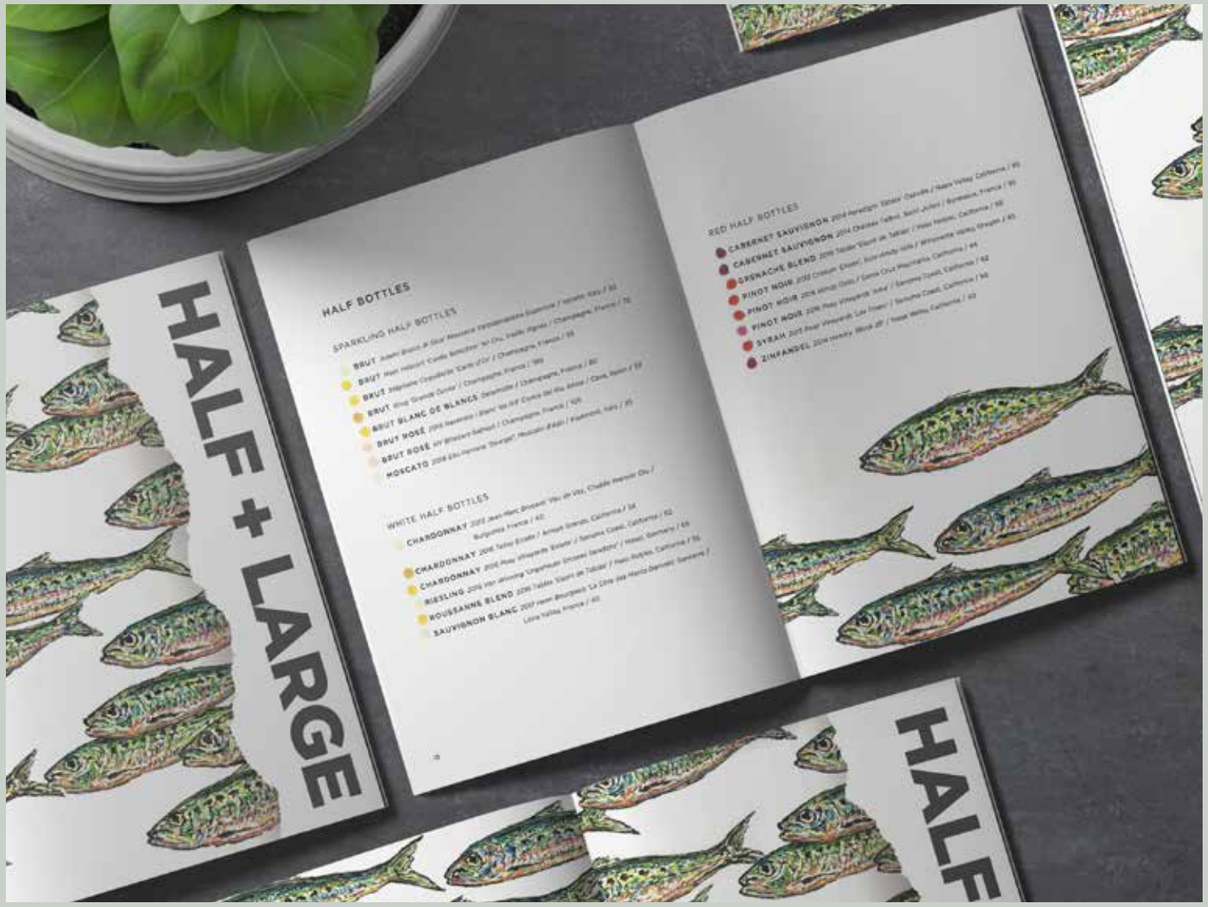

Palette
Wine Book

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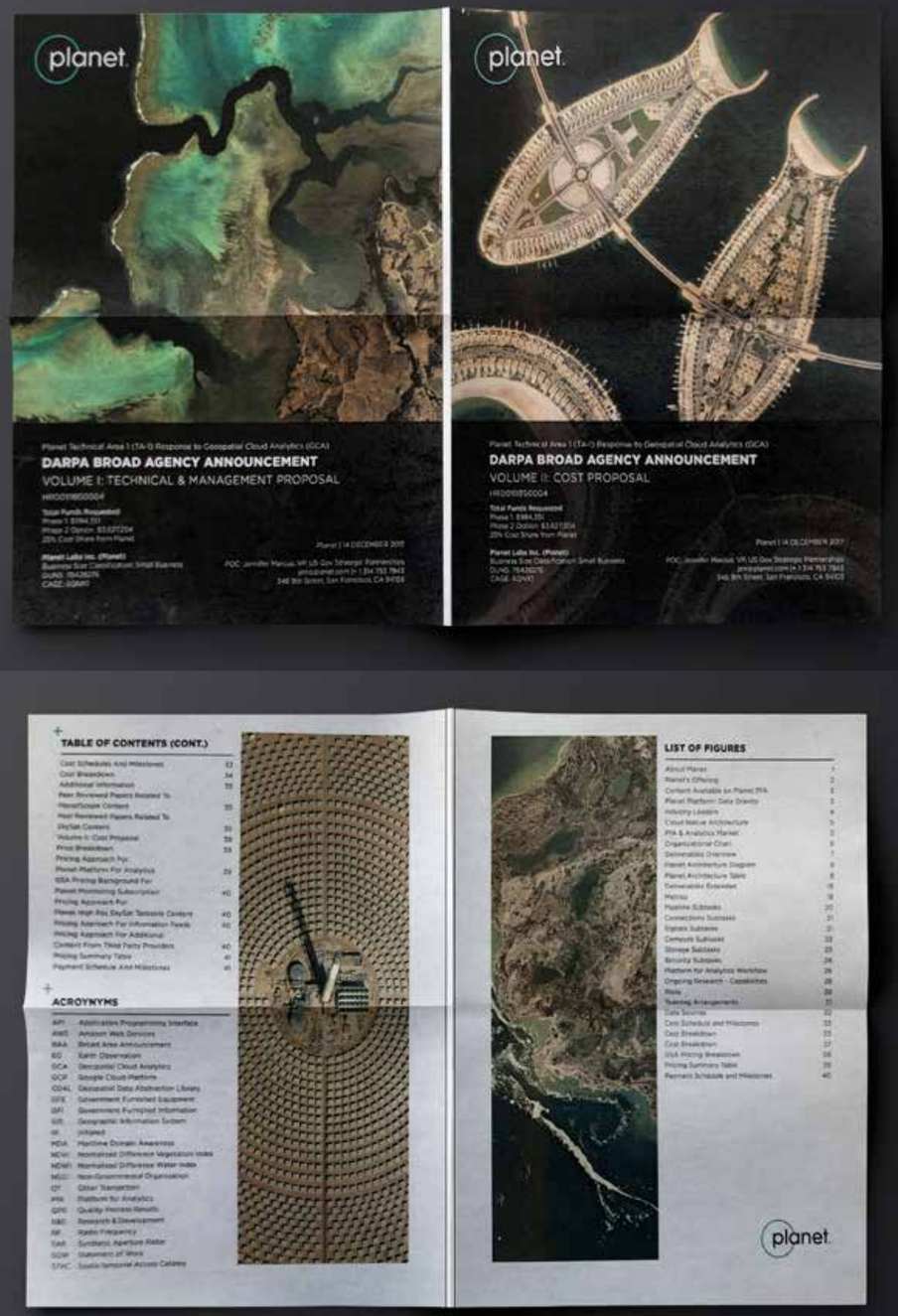
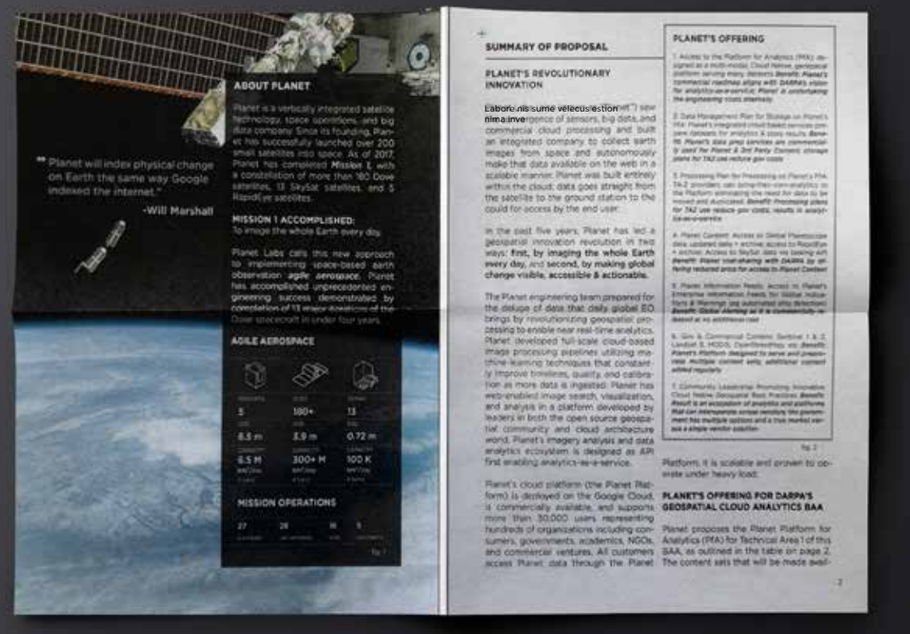
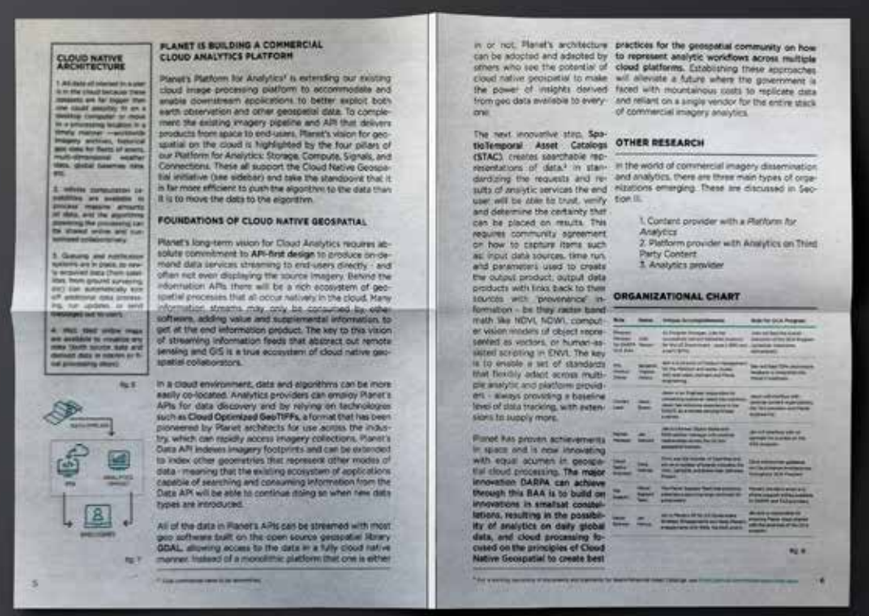
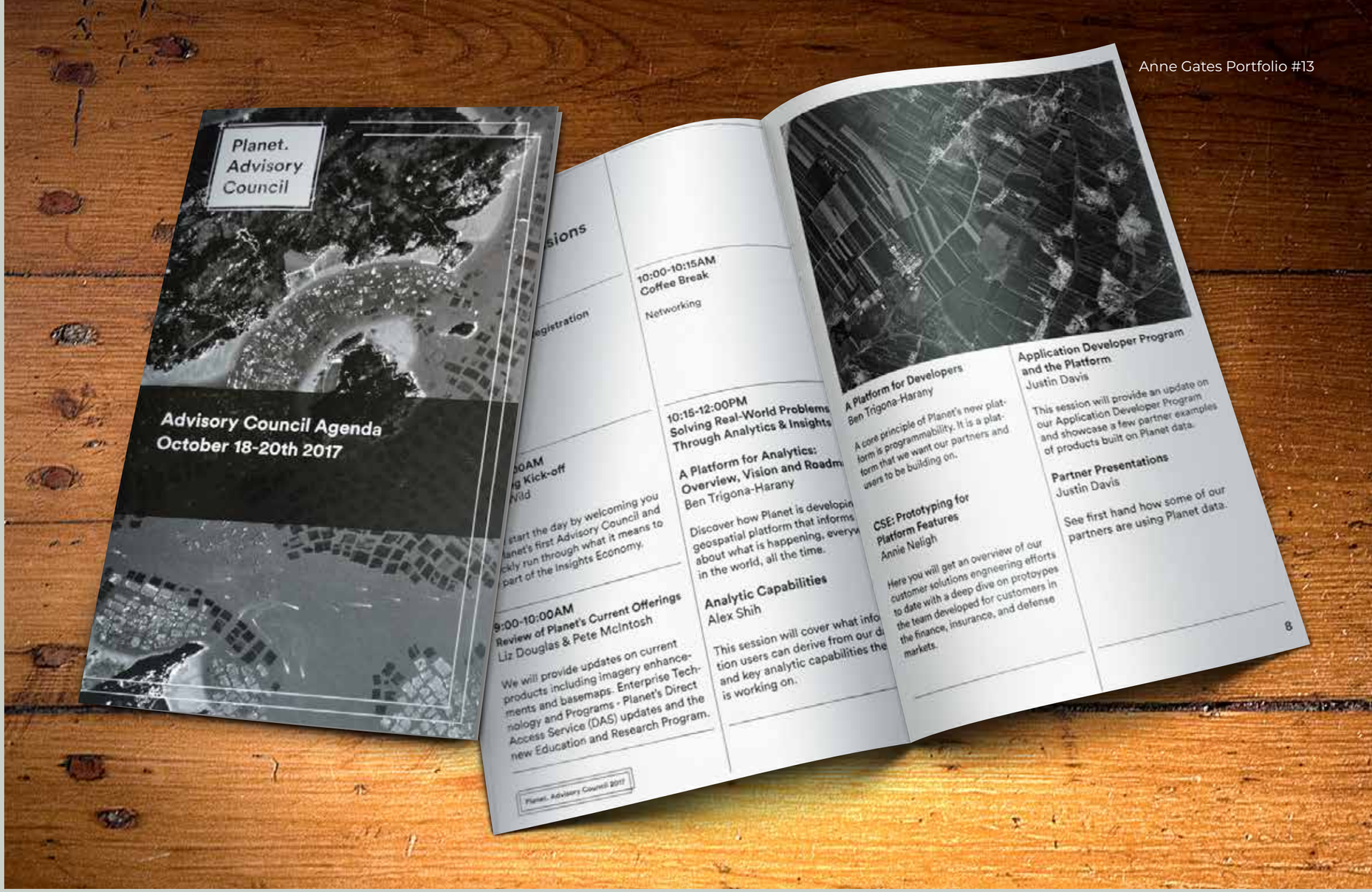
Planet Proposal Design

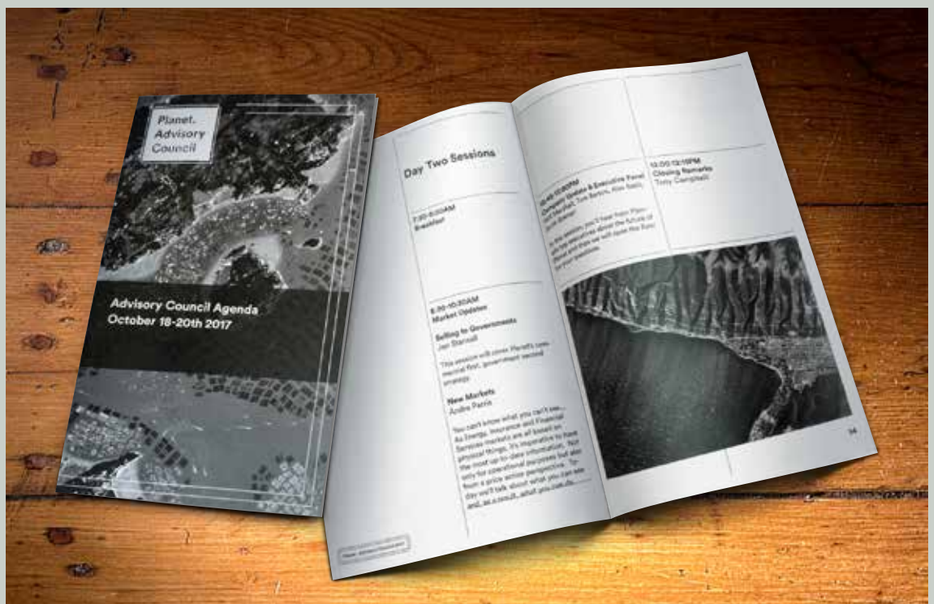


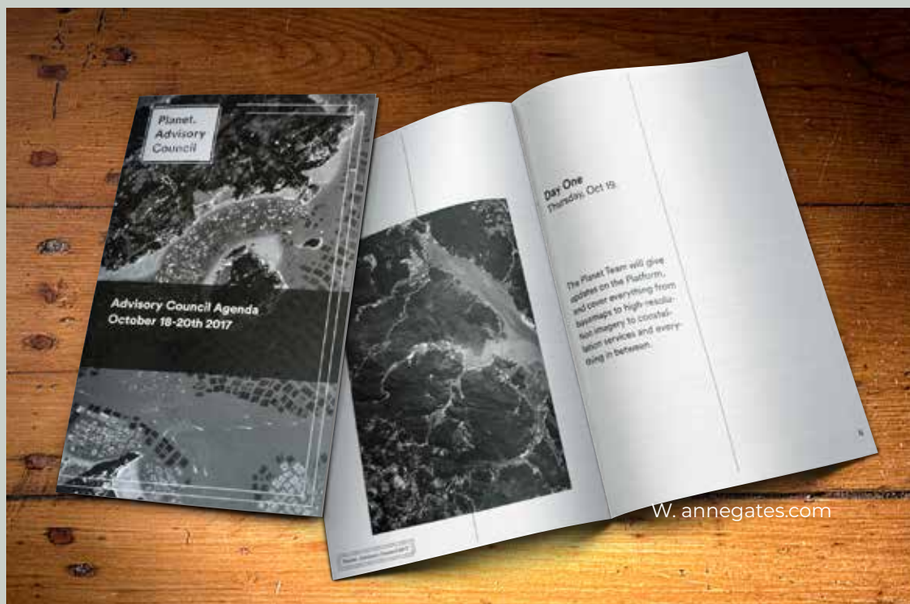




Planet Booklet Design







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Planet
Sticker Design

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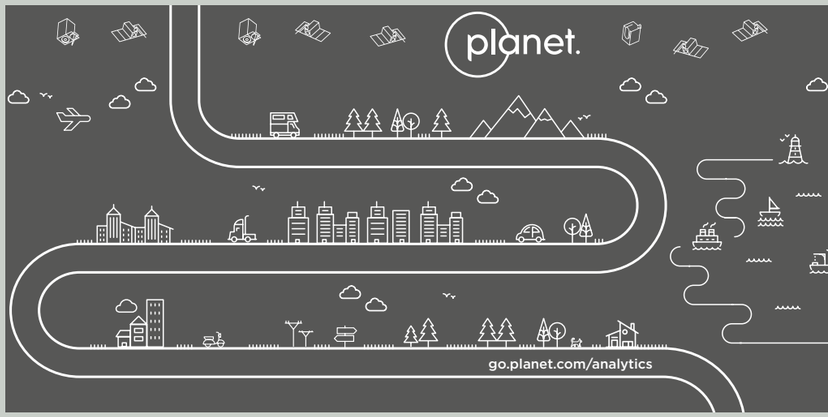
Planet Booth Design



ESRI 2018
Tradeshow Booth

Designed the large scale fabric wall, collateral, postcards, directional signage water bottle swag give away, Planet Analytics beta survey, stickers and accessorized the booth.

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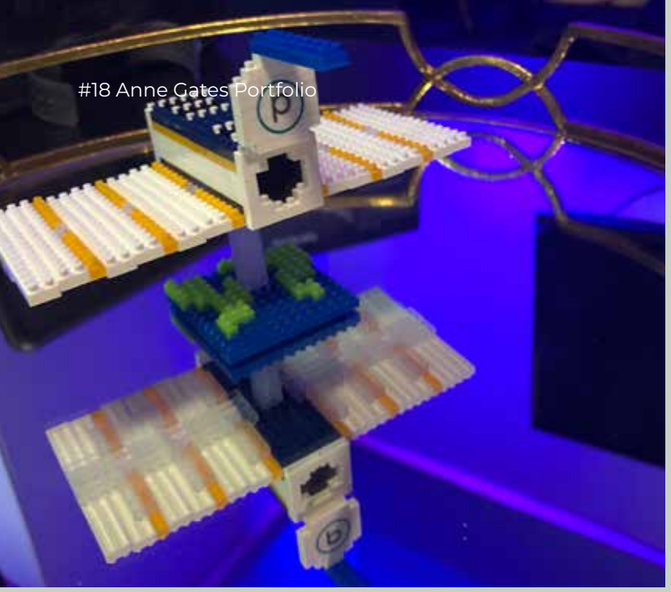

GEOINT 2018, Tradeshow
Private Meeting Room Design

Designed all four of the large scale fabric walls, collateral, directional signage lego swag giveaways, and accessorized the space.

Planet Tradeshow Design

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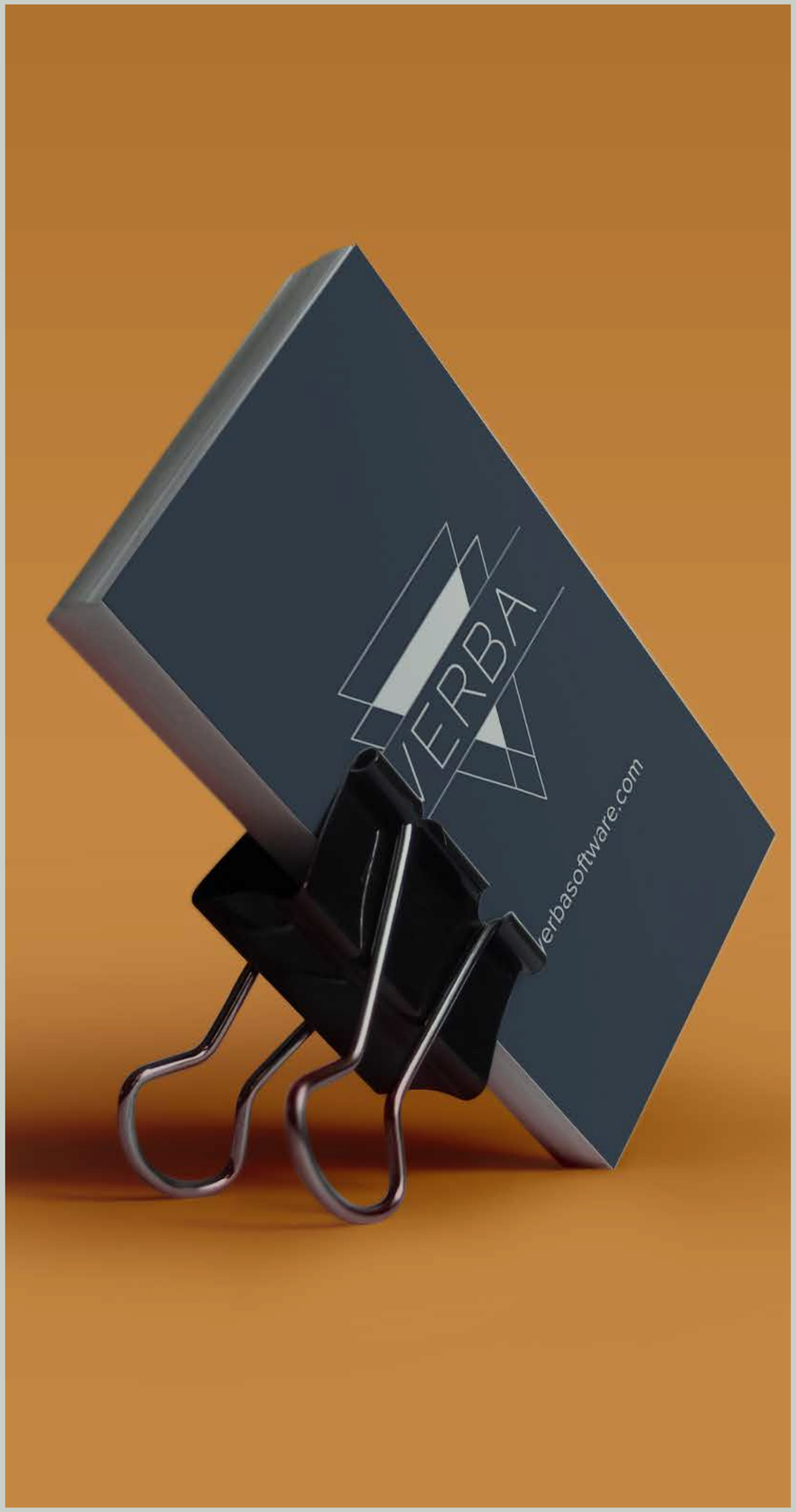
Verba Software Branding



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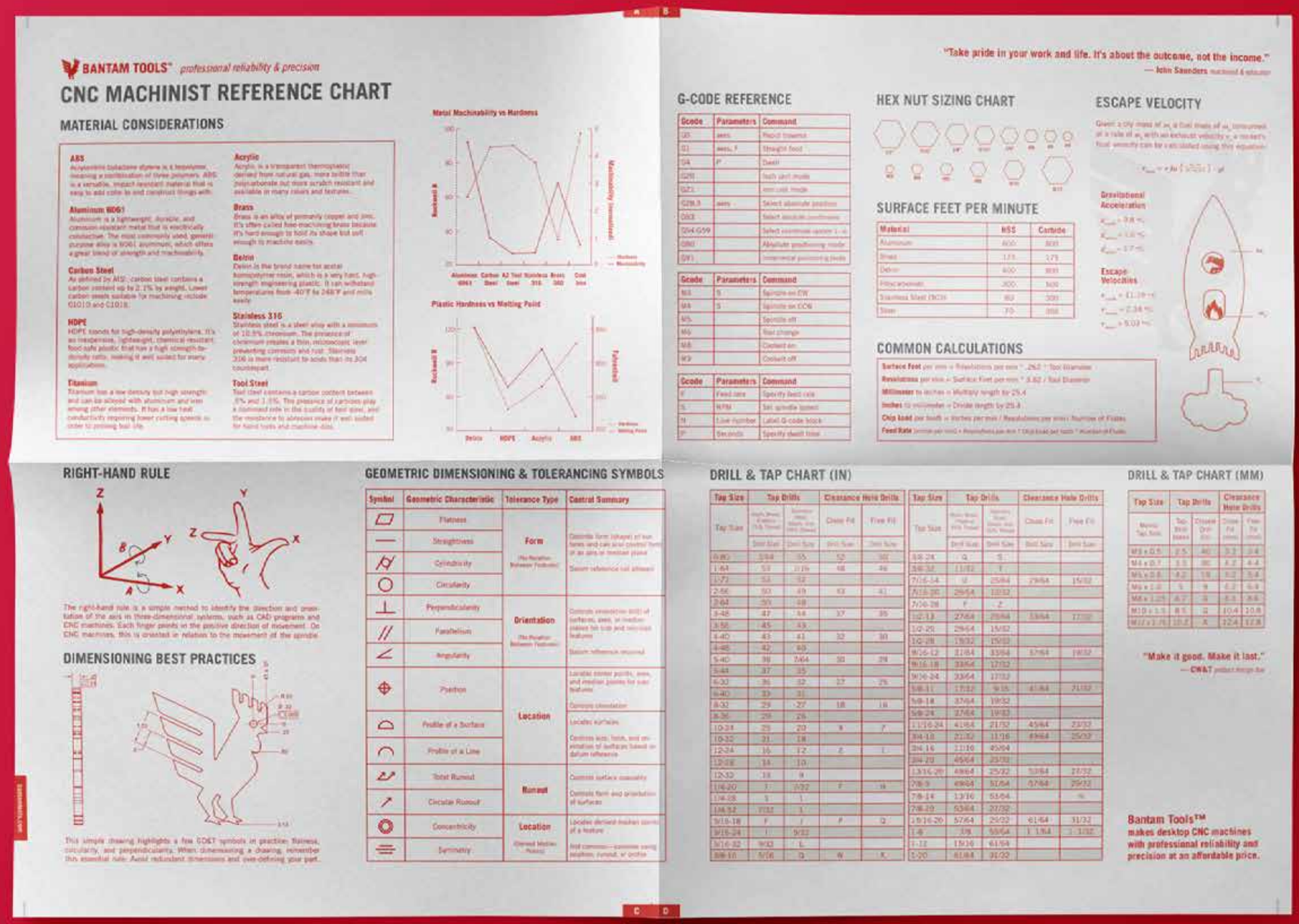

BANTAM TOOLS™ *professional reliability & precision*

CNC MACHINIST REFERENCE CHART

MATERIAL CONSIDERATIONS

ABS
Acrylonitrile butadiene styrene is a terpolymer, meaning a combination of three polymers. ABS is a versatile, impact-resistant material that is easy to add color to and construct things with.

Aluminum 6061
Aluminum is a lightweight, durable, and corrosion-resistant metal that is electrically conductive. The most commonly used general-purpose alloy is 6061 aluminum, which offers a great blend of strength and machinability.

Carbon Steel
As defined by AISI, carbon steel contains a carbon content up to 2.1% by weight. Lower carbon steels suitable for machining include G1010 and G1018.

HDPE
HDPE stands for high-density polyethylene. It's an inexpensive, lightweight, chemical-resistant, food-safe plastic that has a high strength-to-density ratio, making it well suited for many applications.

Titanium
Titanium has a low density but high strength and can be alloyed with aluminum and iron among other elements. It has a low heat conductivity requiring lower cutting speeds in order to prevent tool life.

Acrylic
Acrylic is a transparent thermoplastic derived from natural gas, more brittle than polycarbonate but more scratch resistant and available in many colors and textures.

Brass
Brass is an alloy of primarily copper and zinc. It's often called free-machining brass because it's hard enough to hold its shape but soft enough to machine easily.

Delrin
Delrin is the brand name for acetal homopolymer resin, which is a very hard, high-strength engineering plastic. It can withstand temperatures from -40°F to 248°F and mills easily.

Stainless 316
Stainless steel is a steel alloy with a minimum of 10.5% chromium. The presence of chromium creates a thin, microscopic layer preventing corrosion and rust. Stainless 316 is more resistant to acids than its 304 counterpart.

Tool Steel
Tool steel contains a carbon content between .5% and 1.5%. The presence of carbides play a dominant role in the quality of tool steel, and the monolithic to abrasion make it well suited for hand tools and machine dies.

Metal Machinability vs Hardness

Plastic Hardness vs Melting Point

"Take pride in your work and life. It's about the outcome, not the income."
— John Saunders

G-CODE REFERENCE

Gcode	Parameters	Command
G0	axes	Rapid traverse
G1	axes, F	Straight feed
G4	P	Dwell
G20		Inch unit mode
G21		mm unit mode
G28.3	axes	Select absolute position
G53		Select absolute coordinates
G54-G59		Select coordinate system 1–6
G80		Abolute positioning mode
G91		Incremental positioning mode

Gcode	Parameters	Command
M3	S	Spindle on CW
M4	S	Spindle on CCW
M5		Spindle off
M6		Tool change
M8		Coolant on
M9		Coolant off

Gcode	Parameters	Command
F	Feed rate	Specify feed rate
S	RPM	Set spindle speed
N	Line number	Label G-code block
P	Seconds	Specify dwell time

HEX NUT SIZING CHART

SURFACE FEET PER MINUTE

Material	HSS	Carbide
Aluminum	400	800
Brass	175	275
Delrin	400	800
Polycarbonate	300	500
Stainless Steel (303)	80	300
Steel	70	350

COMMON CALCULATIONS

Surface Feet per min = Revolutions per min * .262 * Tool Diameter
Revolutions per min = Surface Feet per min * 3.82 / Tool Diameter
Millimeter to inches = Multiply length by 25.4
Inches to millimeter = Divide length by 25.4
Chip load per tooth = Inches per min / Revolutions per min / Number of Flutes
Feed Rate (inches per min) = Revolutions per min * Chip load per tooth * Number of Flutes

ESCAPE VELOCITY

Given: a city mass of m_c is fuel mass of m_f consumed at a rate of $\dot{m}_f$ with an exhaust velocity v_e a rocket's final velocity can be calculated using this equation:

$$v_{final} = v_e \ln\left[\frac{m_c + m_f}{m_c}\right] - gt$$

Gravitational Acceleration

$g_{Earth} = 9.8\ m/s^2$
$g_{Moon} = 1.6\ m/s^2$
$g_{Mars} = 3.7\ m/s^2$

Escape Velocities

$v_{esc,Earth} = 11.19\ km/s$
$v_{esc,Moon} = 2.38\ km/s$
$v_{esc,Mars} = 5.03\ km/s$

RIGHT-HAND RULE

The right-hand rule is a simple method to identify the direction and orientation of the axis in three-dimensional systems, such as CAD programs and CNC machines. Each finger points in the positive direction of movement. On CNC machines, this is oriented in relation to the movement of the spindle.

DIMENSIONING BEST PRACTICES

This simple drawing highlights a few GD&T symbols in practice: flatness, circularity, and perpendicularity. When dimensioning a drawing, remember this essential rule: Avoid redundant dimensions and over-defining your part.

GEOMETRIC DIMENSIONING & TOLERANCING SYMBOLS

Symbol	Geometric Characteristic	Tolerance Type	Control Summary
▱	Flatness	Form (No Relation Between Features)	Controls form (shape) of surfaces and can also control form of an axis or median plane. Datum reference not allowed.
—	Straightness		
⌭	Cylindricity		
○	Circularity		
⊥	Perpendicularity	Orientation (No Relation Between Features)	Controls orientation (tilt) of surfaces, axes, or median planes for both size and non-size features. Datum reference required.
//	Parallelism		
∠	Angularity		
⌖	Position	Location (Derived Median Points)	Location center points, axes, and median points for size features. Controls orientation.
⌓	Profile of a Surface		Locates surfaces. Controls size, form, and orientation of surfaces based on datum reference.
⌒	Profile of a Line		
↗↗	Total Runout	Runout	Controls surface cumulative. Controls form and orientation of surfaces.
↗	Circular Runout		
◎	Concentricity	Location (Derived Median Points)	Locates derived median points of a feature. Not common—controls using position, runout, or profile.
≡	Symmetry		

DRILL & TAP CHART (IN)

Tap Size	Tap Drills		Clearance Hole Drills	
	Decimal Equivalent Drill Size (Inches)	Number/Letter Drill Size	Close Fit	Free Fit
0-80	.0594	55	52	50
1-64	.073	51	48	46
1-72	.073	52		
2-56	.083	49	43	41
2-64	.086	48		
3-48	.098	44	37	35
3-56	.098	43		
4-40	.110	41	32	30
4-48	.112	40		
5-40	.125	7/64	30	28
5-44	.125	37		
6-32	.136	32	27	25
6-40	.138	31		
8-32	.159	27	18	16
8-36	.159	26		
10-24	.175	20	9	7
10-32	.189	18		
12-24	.201	12	2	1
12-28	.201	10		
12-32	.213	9		
1/4-20	.250	7	F	H
1/4-28	.250	3		
1/4-32	.266	1		
5/16-18	.312	I	P	Q
5/16-24	.312	1		
3/8-16	.375	5/16		
3/8-24	.375	Q	S	
3/8-32	.391	L		
7/16-14	.438	U	25/64	29/64	15/32
7/16-20	.438	29/64	15/32		
7/16-28	.438	F	Z		
1/2-13	.500	27/64	29/64	33/64	17/32
1/2-20	.500	29/64	15/32		
1/2-28	.500	15/32	15/32		
9/16-12	.562	31/64	33/64	37/64	19/32
9/16-18	.562	33/64	17/32		
9/16-24	.562	33/64	17/32		
5/8-11	.625	17/32	9/16	41/64	21/32
5/8-18	.625	37/64	19/32		
5/8-24	.625	37/64	19/32		
11/16-24	.688	41/64	21/32	45/64	23/32
3/4-10	.750	21/32	11/16	49/64	25/32
3/4-16	.750	11/16	45/64		
3/4-20	.750	45/64	23/32		
13/16-20	.812	49/64	25/32	53/64	27/32
7/8-9	.875	49/64	51/64	57/64	29/32
7/8-14	.875	13/16	53/64		
7/8-20	.875	53/64	27/32		
15/16-20	.938	57/64	29/32	61/64	31/32
1-8	1.000	7/8	59/64	1 1/64	1 1/32
1-12	1.000	15/16	61/64		
1-20	1.000	61/64	31/32		

DRILL & TAP CHART (MM)

Tap Size	Tap Drills	Clearance Hole Drills	
Metric Tap Size	Tap Drill Size	Close Fit (mm)	Free Fit (mm)
M3 x 0.5	2.5	3.2	3.4
M4 x 0.7	3.3	4.2	4.4
M5 x 0.8	4.2	5.2	5.4
M6 x 1.0	5	6.2	6.6
M8 x 1.25	6.7	8.3	8.6
M10 x 1.5	8.5	10.4	10.8
M12 x 1.75	10.2	12.4	12.8

"Make it good. Make it last."
— CWAT

Bantam Tools™ makes desktop CNC machines with professional reliability and precision at an affordable price.

Bantam Tools Poster

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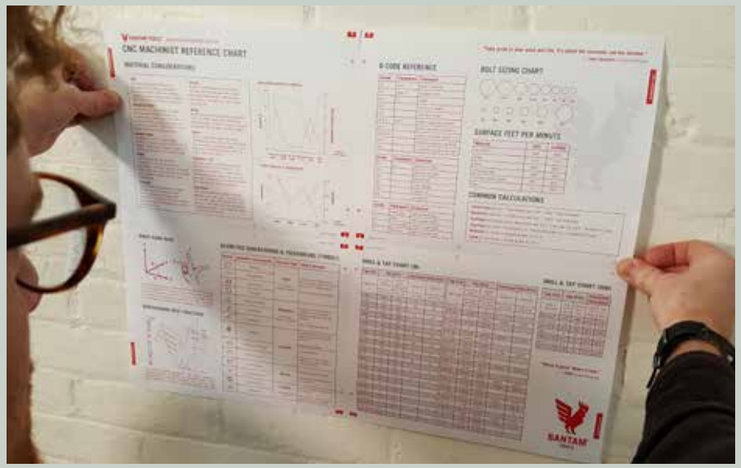
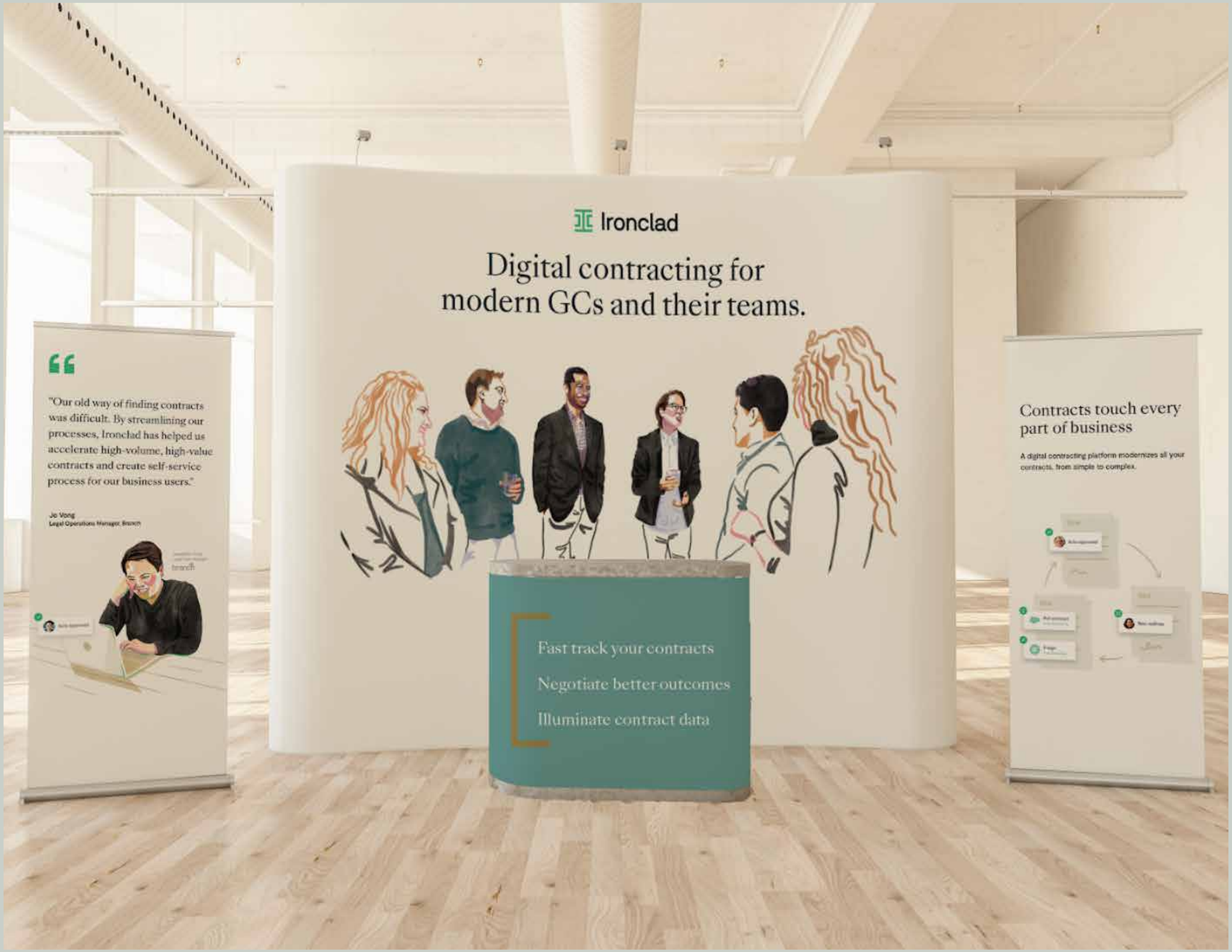


Bantam Tools Poster



Ironclad Tradeshow Booth

Radiologics

RADIOLOGICS

PART 1

XNAT Loves Data

XNAT is packed with features to store, manage, explore, and manipulate data. With this power at their fingertips, organizations are prepared to better maintain the long-term integrity of data, to explore emergent relationships, and to share with their peers as well as the broader research community.

Organizing & Sharing

All data stored in XNAT is associated with one or more user-defined projects. Projects are the basis of the system's security model: Users are given access to a specific project or set of projects and cannot access data or metadata outside of that set. Projects might correspond to a specific (e.g., grant-approved) study, or represent a single site's activity in a multi-site study. You could even use a project to group together disparate but related data that already exists in other projects. You are free to use any organization scheme you choose.

Uploading

XNAT offers a wide range of data acquisition with features for flexible anonymization, as well as automated protocol validation, automated metadata and derived value mapping, and in-flight encryption.

- DICOM images and metadata directly from scanners for all modalities
- Use customizable forms to directly enter clinical or psychometric data
- Upload files through the web application from anywhere
- Batch upload multiple files (even ZIP files) via desktop applications
- ...and more

It's all underpinned by a carefully designed workflow with intelligent permissions that prevent routine users from accidentally duplicating, overwriting, or deleting important data. And the anonymization engine offers sophisticated language to cover every privacy consideration. These features are a huge improvement over conventional file systems or databases because they empower you to collect data from anyone, anywhere, any time.

Page 2

Securing & Managing Access

XNAT provides secure ways for you to access your data and control its accessibility to your fellow researchers, the wider research community, or even the general public. XNAT has a three tiered architecture that includes a data archive, user interface, and middleware engine. Data can be entered into the archive as XML or through data entry forms. New data are stored in a virtual quarantine called the Prearchive until an authorized user has validated it. XNAT maintains a history profile to track all changes made to the managed data.

This three-tiered approach also allows you implement detailed quality control procedures. Additional XNAT features which help with those processes include data entry forms, data-type-specific searches, searches that combine across data types, detailed reports, listings of experimental data, upload/download tools, access to standard laboratory workflows, and administrative/security tools.

Searching & Exploring Large Data Sets

Searching and reporting are among the most highly-prized features of XNAT. Through the standard user interface, you can retrieve, navigate and query data which corresponds to almost any data structure. For example, you can search over all MR sessions ("give me the list of sessions that contain diffusion data at 3T"). Or you might want to track exactly how many subjects and sessions you have for a report or to cite in a talk.

You can save queries, customize results, and share with others so they can explore their own data in similar ways. While it's certainly possible to use scripting or command line tools to comb through any pile of data, we think that XNAT's approach is a much easier process which delivers more power with less training to end users.

Viewing & Downloading

The XNAT Image Viewer supports common imaging formats, including DICOM and Analyze. It can be extended to support additional formats and generate custom displays. Best of all, it requires no plug-ins or add-ons–it runs directly in your browser. In fact, getting started with XNAT has zero minimum footprint, so you can roll out to new teams and departments without a call to IT.

XNAT & Large Multi-Site Studies

Imaging research & analysis is increasingly dependent on acquiring data from large numbers of subjects, which in turn means searching across wide geographical areas to find enough people who meet your study's criteria. One way to manage this is to partner with multiple research institutions from which to recruit and image subjects.

While this is economically more feasible (and friendlier to your subjects), it introduces a new host of challenges for study coordination:

- Integrating disparate scanning technologies and devices
- Routinizing non-uniform processes for image acquisition and data handling;
- Aggregating all this data into a centralized system, and then
- Managing data access for a large number of collaborators outside your institution

XNAT has evolved to solve this problem. As a web-based application, it can be used from anywhere in the world and deployed to new sites and collaborators in seconds. Security and fine-grained access controls are built into XNAT at the root level. And it includes administrative features to support the complexities of multi-center research projects, including:

- Highly configurable DICOM data importing to unify data from multiple scan sources
- Reporting tools for study coordination
- Siloed data access for each institution, with the capability of sharing data across all institutions
- Protection from inadvertent PHI on data gathered from multiple sources
- Customization of data queries that fit data into your study protocols
- Fully audited security

Because of these features, XNAT has been chosen to support multiple high-profile multi-site research studies, including the Human Connectome Project, the DIAN study of inherited Alzheimer's Disease, the INTRUST study of post-traumatic stress disorders, and the PREDICT-HD study of Huntington's Disease.

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One Hat One Hand

Left: VSCO fo Samsung, designed and fabricated black-out curtains for custom photobooth.

Above: Twin-size, life sized Princess and the Pea bed. Sewed 26 faux mattresses, and bed skirt. Designed by One Hat One Hand's Jordan Scott for Gotti x Getty's Holiday party.

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One Hat One Hand
Outside Lands

40 hours, 30 yards of pleating and sewing to create the “gills’ on giant mushroom sculptures. Designed by One Hat One Hand’s Steven Fromtling for Outside Lands Music Festival 2018

Screen Printing commission for Satchel Bags, Savannah, GA 2012

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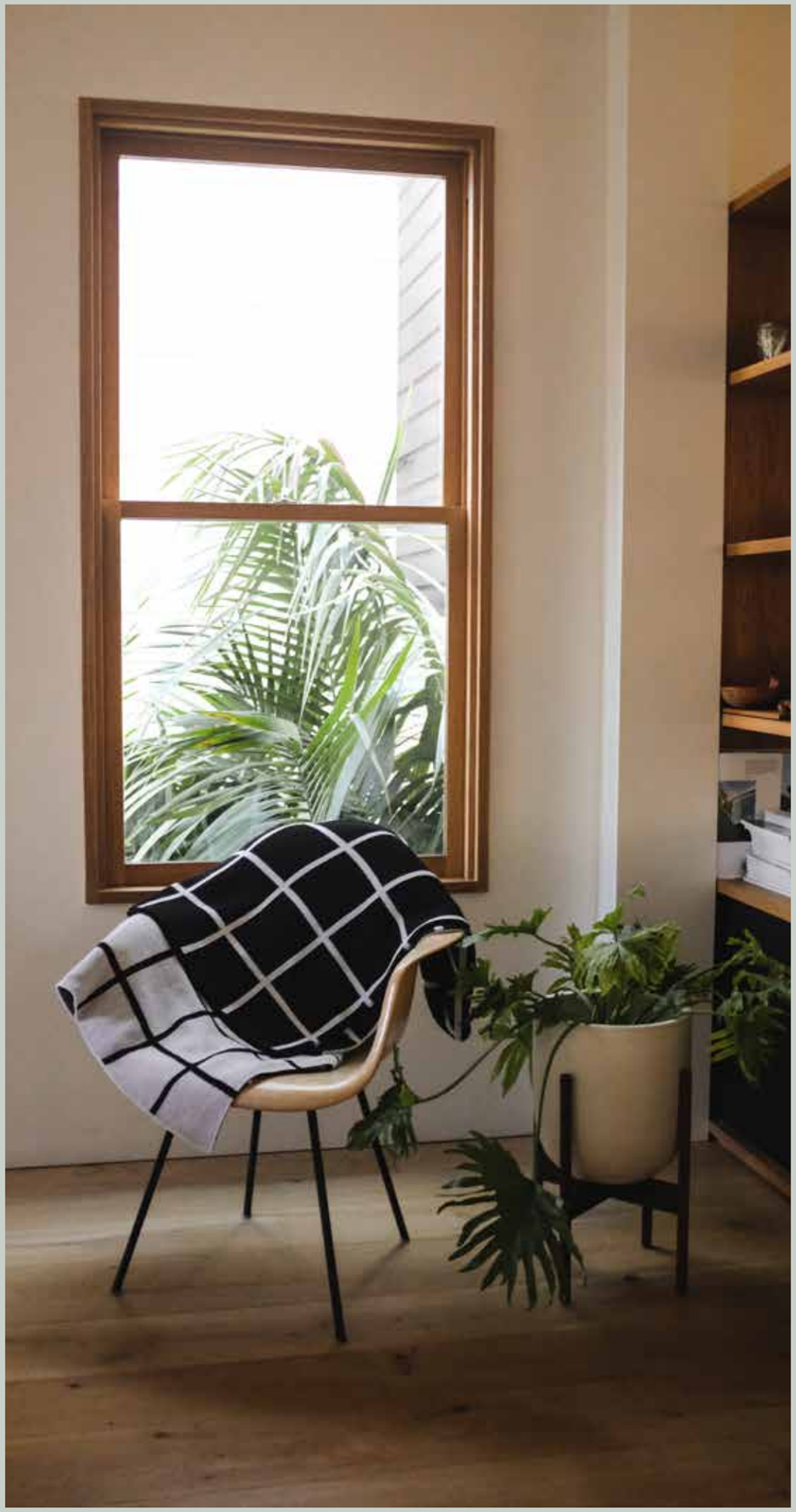

Collection of Cotton Throws

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Quilts

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Salvation Mountain Quilts 2017

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Space & Time Quilts 2018

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