

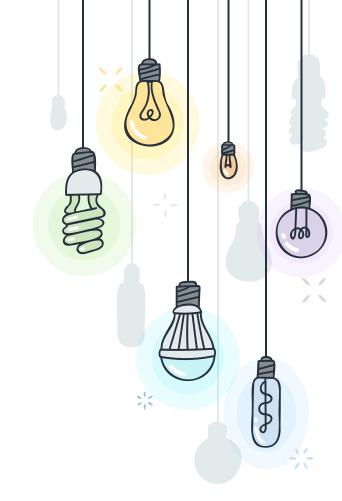
Christopher Knott - UX Case Study



Parametric (Product) Selection Tool

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HELLO!

I am Christopher Knott

This is a quick overview of the most important project at Texas Instruments (TI):

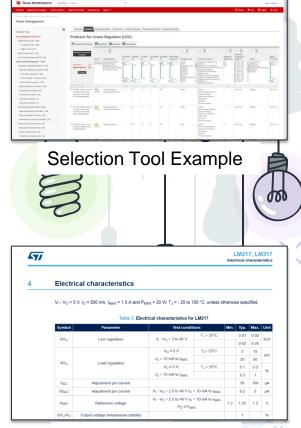
The Parametric Selection Tool



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>: PROJECT BACKGROUND

- → The TI customer is an Electronics Design Engineer
- -- Customers visit TI.com to select a product, and to find very detailed information in the product "datasheet"
- -- Customers find this information by using the "Parametric Selection Tool"



Datasheet Example



My role involved the following:

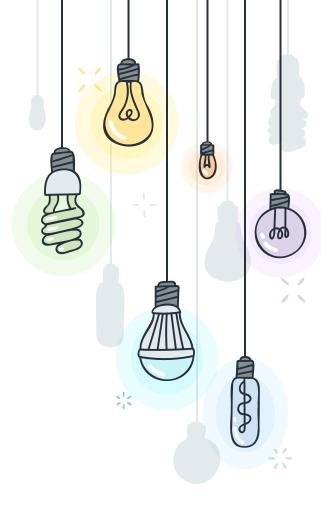
- Extensive BA work to understand requirements
- Perform a competitive analysis against key competitors
- Design and evaluate A/B Tests
- Create improvements through new designs and wireframes
- × Provide guidance to designers and developers
- Design and moderate user labs for external testing
- Perform internal user testing of the design
- Create and implement a metrics plan





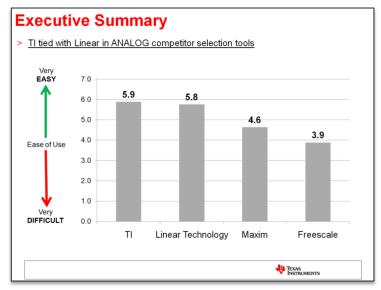
My role involved the following:

- Make the TI Parametric Selection tool the best in class
- Design and implement new quick searches
- × Increase the scalability and speed of the tool
- × Increase sales funnel conversions
- Remove the need for horizontal scroll
- Make the tool mobile friendly





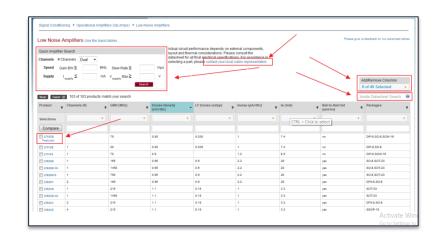
Using a third party testing company, at an offsite location, we benchmarked the tool against key competitors





I identified key areas that competitors had which TI didn't

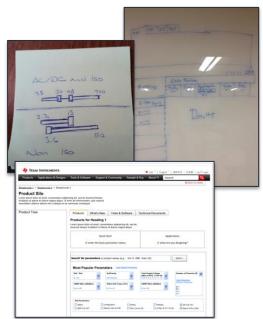
- × Quick search tools
- × Speed of use
- Deeper funnel CTA's
- × Prominent datasheet location





Everything started with high level sketching

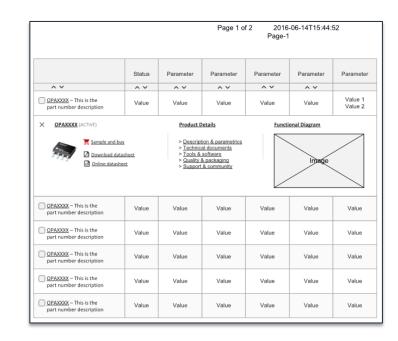
Some were done on pen and paper, others on whiteboard, and some via simple wireframes





While doing BA work, I led JAD sessions to come up with new designs

I also created some new quick wireframes for early discussion



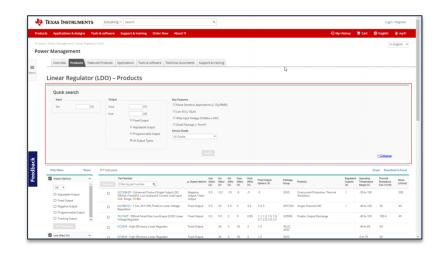


Using the same code base as the desktop site, we made the site mobile friendly





- New quick search tools were created
- Every major line of business was consulted for customized ones
- Smaller LOB's received an automated quick search tool





All designs received "developer ready" levels of annotation



(Height will expand dynamically based on the length of the Parameter Name.)

Expand / Collapse

Selection Criteria

Visibility Checkbox

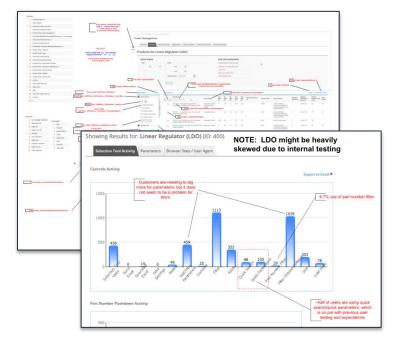


Every action worth evaluating was tagged

The existing site was measured as well as the new one

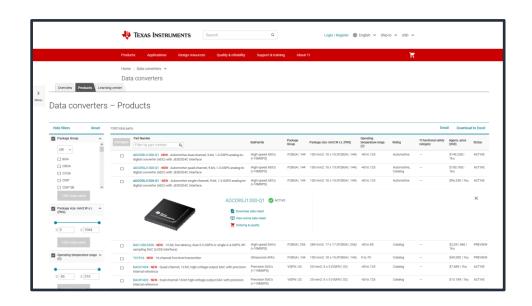
Custom dashboards were created

Before and after metrics were evaluated





The "final" design was first launched as a Beta test so that we could gather metrics



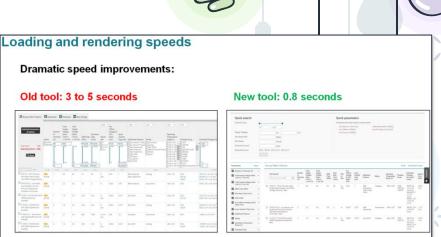


We gathered customer feedback in China, USA, and Japan via an online user survey

2		
3	EN	CN
	Please provide feedback for our new BETA parametric selection tool. Your feedback will help us improve the	敬请您提供有关全新 Beta 参数选择工具的反馈建议。
4	selection tool in future releases.	您的反馈将有助于我们在今后发布的版本中对这款选择工具进行改进。
5		
Г	1. How often do you use the TI.com parametric selection tool?	1. 您在 TI.com.cn 上使用参数选择工具的频率是多久?
ı	Once per week	毎周一次
ı	Once per month	每月一次
L	Every few months	每隔几个月才使用
L	Once per year	每年一次
6	Never	从不使用
7		
ı	2. How satisfied are you with the new BETA TI.com parametric selection tool?	2. 您对 Ti.com.cn 上全新的 Beta 参数选择工具的满意程度如何?
ı	Very unsatisfied	非常不满意
ı	Moderately unsatisfied	比较不满意
ı	Neutral	保持中立
L	Moderately satisfied	比较清意 非常清意
B-	Very satisfied	非 希讷总
ľ	3. How successful were you at finding a suitable part by using the new BETATI.com parametric selection	
L	tool?	3. 通过 Tl.com.cn 上全新的 Beta 参数选择工具您是否能成功找到合适的产品/器件?
ı	Very unsuccessful	非常失败
L	Moderately unsuccessful	比较失败
ı	Neutral	保持中立
ı	Moderately successful	比较成功
lo	Very successful	非常成功
1		
	4. Do you feel the new BETATI.com parametric selection tool is an improvement?	4. 您觉得 Tl.com.cn 上全新的 Beta 参数选择工具相较以往是改进了吗?
ı	Yes, the new BETA tool is an improvement	是,全新 Beta 参数选择工具确实有所改进
ı	No, I prefer the existing tool	不是,我喜欢现有的参数选择工具
12	I'm neutral	我对此保持中立
13		
ı		
4	5. Is there anything you'd like to change about the new BETA TI.com parametric selection tool?	5. 对于 Beta 参数选择工具您是否有任何的更改建议想要反馈给我们?
5	y y y y y y y y y y y y y y y y y y y	A STATE OF THE PARTY OF THE PAR

RESULTS - PERFORMANCE

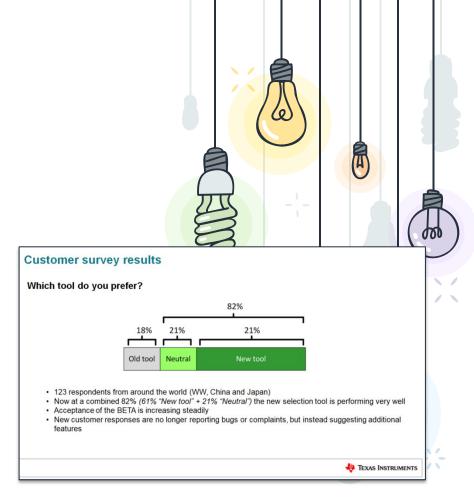
- The new tool was significantly faster in part due to UI changes, and in part to code changes
- This allowed us to scale the tool better for future growth



RESULTS - SATISFACTION

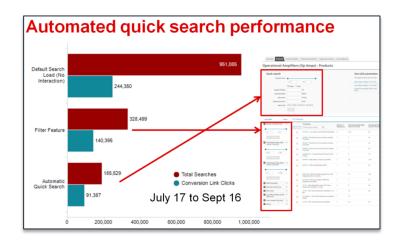
- -- Customers vastly preferred the new tool
- ├ (NOTE: chart has a typo that made it's way into the internal presentation)

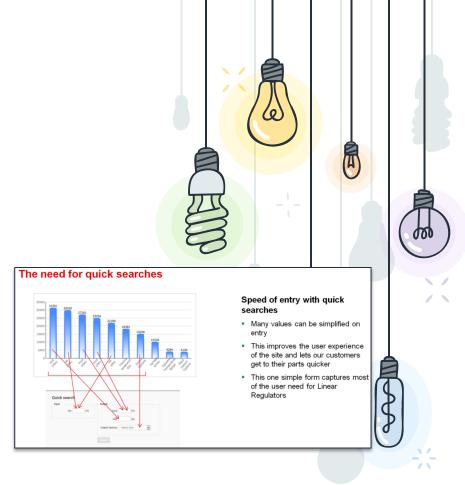
 Nobody noticed ☺



RESULTS - QUICK SEARCH

Quick search tools performed very well and converted highly







The success of this project led to more and more improvements to the tool, and led to greater integration with the rest of the site

- Stakeholders were happy
- Customers were very happy

