



Fusion 360

IdeaStation User Forums

OCTOBER 2016

Allison Leach

Sr UX Reseacher

GA: Intro to Data Science

What



About Fusion 360

Fusion 360 is
Autodesk's first
cloud-based 3D
modeling product
with both CAD and
CAM software
capabilities.

The screenshot displays the Autodesk Fusion 360 IdeaStation interface. At the top, the navigation bar includes 'FUSION 360', 'OVERVIEW', 'LEARN', 'COMMUNITY', 'CUSTOMERS', 'PARTNERS', 'STUDENTS', and 'TRY OR SUBSCRIBE'. Below this, the breadcrumb trail reads 'Autodesk Community > Fusion 360 > Fusion 360 IdeaStation : Top Ideas'. The main heading is 'IdeaStation: Request a Feature or Enhancement'. The page features a grid of idea cards. The first card, 'How do I get my idea in Fusion 360?', has 'LEARN MORE' and 'SUBMIT AN IDEA' buttons. The second card, 'Sheet Metal and development' by giacomoardesi, is marked 'MOST VOTED' with 462 votes. The third card, 'OSX Shift + 2 Finger Swipe on touchpad for Orbit - Allow for inverting' by jakenh1, is marked 'IMPLEMENTED' with 4 votes. Below the grid is a filter bar with tabs for 'RECENT', 'POPULAR', 'MOST VOTED', 'IMPLEMENTED', and 'ANALYTICS', along with a 'Submit an Idea' button. The main content area shows two detailed idea posts. The first, 'Sheet Metal and development', is marked 'ACCEPTED' and has 462 votes. The second, 'Linux', is marked 'FUTURE CONSIDERATION' and has 222 votes. Both posts include a 'VOTE' button, labels, tags, and a 'View Comments' link. The right sidebar contains a search bar, a welcome message, a list of user settings (MESSAGES, MY SETTINGS, EDIT MY PREFERENCES, MARK ALL POSTS AS UNREAD, MARK ALL POSTS AS READ, SIGN OUT), a 'HELP SHAPE FUSION 360' section with links to 'REQUEST A FEATURE', 'VIEW THE PRODUCT ROADMAP', 'QUICK LINKS', 'WHAT'S NEW', 'REPORT BUGS & ISSUES', and 'PRODUCT HEALTH DASHBOARD', and a 'How to use the IdeaStation' section explaining the voting process.

AUTODESK

FUSION 360 / OVERVIEW LEARN COMMUNITY CUSTOMERS PARTNERS STUDENTS TRY OR SUBSCRIBE

Autodesk Community > Fusion 360 > Fusion 360 IdeaStation : Top Ideas

IdeaStation: Request a Feature or Enhancement

How do I get my idea in Fusion 360?

LEARN MORE

SUBMIT AN IDEA

MOST VOTED 462

Sheet Metal and development

by giacomoardesi

IMPLEMENTED 4

OSX Shift + 2 Finger Swipe on touchpad for Orbit - Allow for inverting

by jakenh1

Search IdeaStation

Welcome to the Fusion 360 Forum

MESSAGES (1)

MY SETTINGS

EDIT MY PREFERENCES

MARK ALL POSTS AS UNREAD

MARK ALL POSTS AS READ

SIGN OUT

HELP SHAPE FUSION 360

REQUEST A FEATURE

VIEW THE PRODUCT ROADMAP

QUICK LINKS

WHAT'S NEW

REPORT BUGS & ISSUES

PRODUCT HEALTH DASHBOARD

How to use the IdeaStation

Want to get a feature implemented? Vote for ideas you want to see. The more votes an idea has, the more likely it is to make it into the next version!

LEARN MORE

SUBMIT AN IDEA

VIEW THE PRODUCT ROADMAP

RECENT POPULAR MOST VOTED IMPLEMENTED ANALYTICS

View all Sort by Default

Submit an Idea

Sheet Metal and development

by giacomoardesi | on 09-24-2013 12:49 PM

462 Votes

would be much appreciated!

VOTE

Labels: Model

Everyone's Tags: developing flatten Lofting sheet metal undrape View All (6)

Permalink Post a Comment View Comments (166)

11830 Views

Linux

by Jacqui51 | on 10-17-2013 02:39 PM

222 Votes

You need to produce Fusion 360 for Linux/Ubuntu.

VOTE

Labels: Model

Permalink Post a Comment View Comments (203)

18524 Views

Keyboard shortcuts

by MooSooBoo | on 06-06-2013 12:42 AM

IMPLEMENTED

Labels

About Fusion 360

As a contributor to the **maker movement** (esp to hobbysits, start-ups), Fusion has the most active community of users of all Autodesk products – from online forums, to offline MeetUps and workshops.

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About Fusion 360

For example, Fusion's **online communities** include:

- * Learning Center
- * Forums
- * IdeaStation
- * YouTube
- * Twitter
- * Facebook

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About Fusion 360

However, even though the Fusion team regularly engages with users across these channels, analysis of users' voices is a ***time-intensive, manual and qualitative*** process – resulting in an incomplete understanding of our customers*

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However, even though the Fusion team regularly engages with users across these channels, analysis of users' voices is a manual, qualitative process – resulting in an incomplete understanding of our customers*

(*hint: we have no data scientists!)

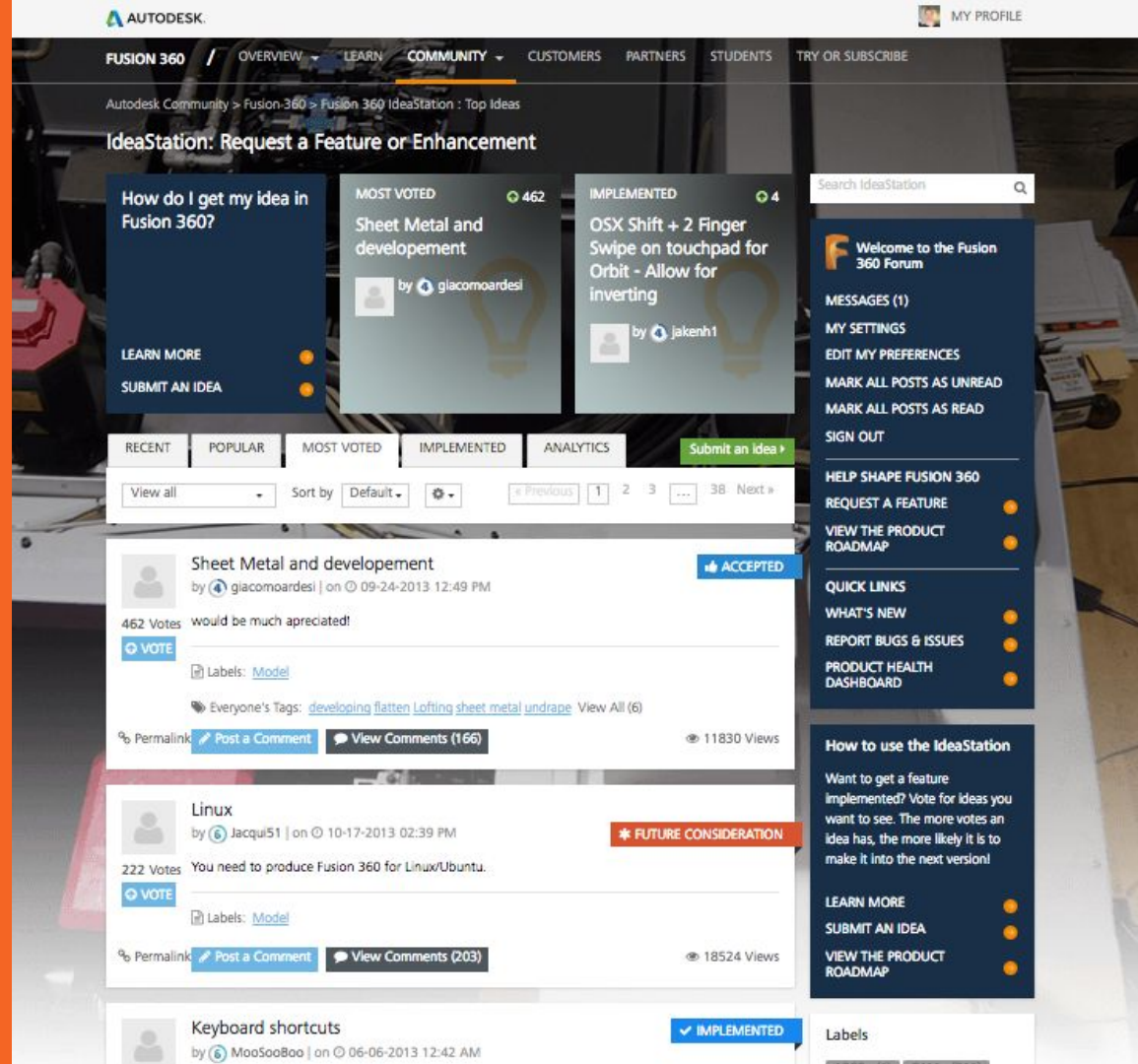
The screenshot displays the Autodesk Fusion 360 IdeaStation interface. At the top, navigation links include FUSION 360, OVERVIEW, LEARN, COMMUNITY, CUSTOMERS, PARTNERS, STUDENTS, and TRY OR SUBSCRIBE. The main heading is "IdeaStation: Request a Feature or Enhancement". Below this, there are sections for "How do I get my idea in Fusion 360?", "MOST VOTED" ideas, and "IMPLEMENTED" ideas. The "MOST VOTED" section shows an idea titled "Sheet Metal and development" by giacomoardesi with 462 votes. The "IMPLEMENTED" section shows an idea titled "OSX Shift + 2 Finger Swipe on touchpad for Orbit - Allow for inverting" by jakenh1 with 4 votes. A sidebar on the right contains a search bar, a welcome message, and various links like "MESSAGES (1)", "MY SETTINGS", "EDIT MY PREFERENCES", "MARK ALL POSTS AS UNREAD", "MARK ALL POSTS AS READ", "SIGN OUT", "HELP SHAPE FUSION 360", "REQUEST A FEATURE", "VIEW THE PRODUCT ROADMAP", "QUICK LINKS", "WHAT'S NEW", "REPORT BUGS & ISSUES", "PRODUCT HEALTH DASHBOARD", and "How to use the IdeaStation". The main content area shows a list of ideas with filters for RECENT, POPULAR, MOST VOTED, IMPLEMENTED, and ANALYTICS. The first idea is "Sheet Metal and development" by giacomoardesi, dated 09-24-2013, with 462 votes and a "VOTE" button. The second idea is "Linux" by Jacqui51, dated 10-17-2013, with 222 votes and a "VOTE" button. The third idea is "Keyboard shortcuts" by MooSooBoo, dated 06-06-2013, with a status of "IMPLEMENTED".

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(**just one ambitious user researcher!)



The Subject

Fusion 360 IdeaStation

What it is

- An online forum where customers can share their ideas to improve Fusion 360

What it's for

- A way for customers to communicate with Fusion's design team
- A way for customers to form an online community

How it's used

- To exchange ideas for product improvements
- To vote and comment on other user's ideas
- **To identify design ideas to implement in Fusion 360**



The Question

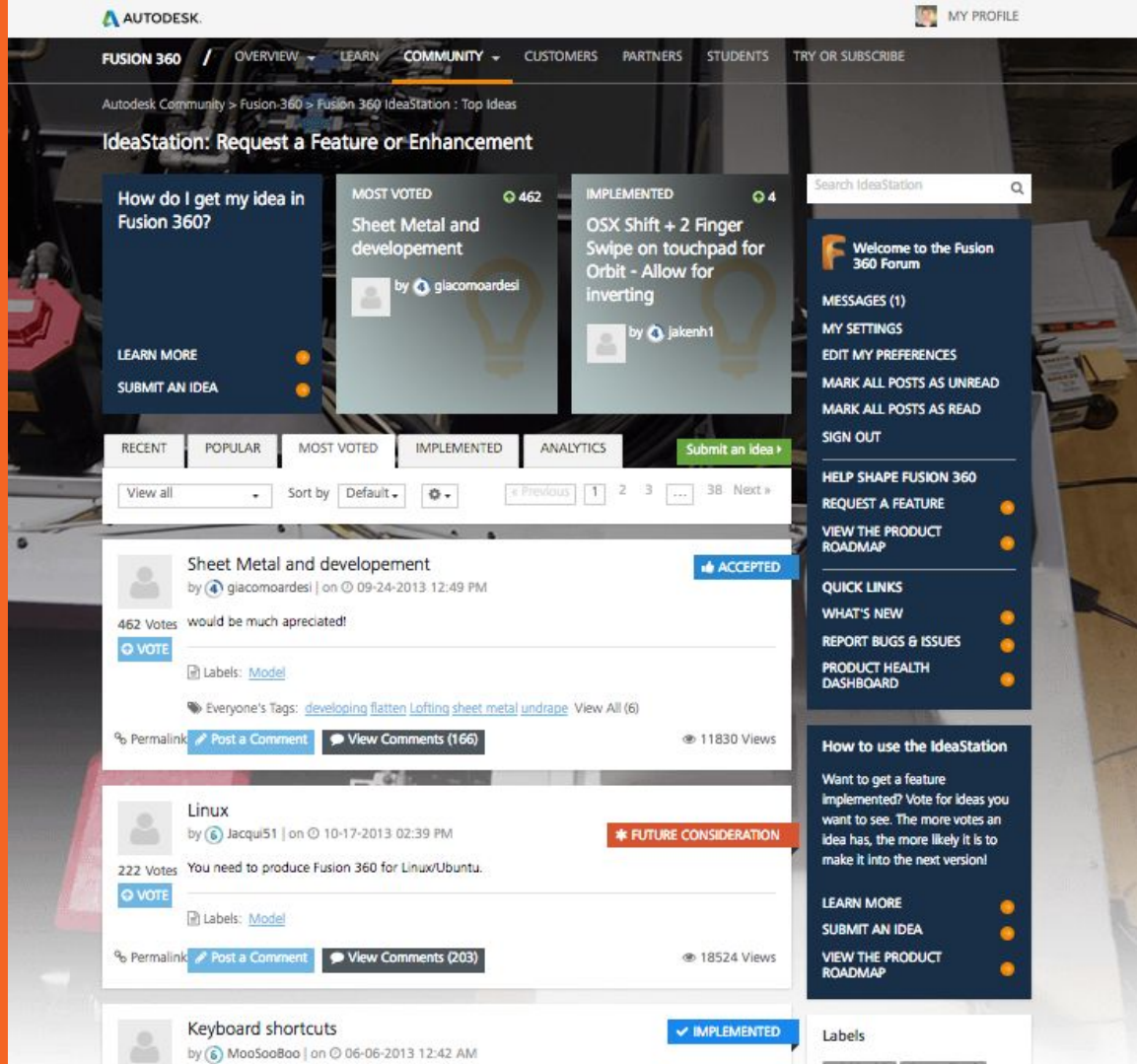
Are we making improvements that users actually care about?

S

- Are we making design changes that reflect the voices of our online user community?
 - **How are ideas from the IdeaStation reviewed today?**
 - **Which ideas are implemented?**
 - In the bigger picture, does our product roadmap reflect concerns that users point out in the IdeaStation?
-

IdeaStation Posts

[Link to website](#)



The screenshot displays the Autodesk IdeaStation interface for Fusion 360. The top navigation bar includes links for Overview, Learn, Community, Customers, Partners, Students, and a Try or Subscribe button. The main heading is "IdeaStation: Request a Feature or Enhancement". Below this, there are three featured idea cards: "How do I get my idea in Fusion 360?", "Sheet Metal and development" (Most Voted, 462 votes), and "OSX Shift + 2 Finger Swipe on touchpad for Orbit - Allow for inverting" (Implemented, 4 votes). A sidebar on the right contains a search bar, a welcome message, message and settings links, and quick links to request features, view the roadmap, and access product health dashboards. The main content area shows a list of ideas with filters for Recent, Popular, Most Voted, Implemented, and Analytics. The first idea, "Sheet Metal and development" by giacomoardesi, has 462 votes and is marked as "ACCEPTED". The second idea, "Linux" by Jacqui51, has 222 votes and is marked as "FUTURE CONSIDERATION". The third idea, "Keyboard shortcuts" by MooSooBoo, is marked as "IMPLEMENTED". Each idea card includes a "VOTE" button, a "Post a Comment" button, and a "View Comments" button.

Autodesk

FUSION 360 / OVERVIEW ▾ LEARN **COMMUNITY** ▾ CUSTOMERS PARTNERS STUDENTS TRY OR SUBSCRIBE

Autodesk Community > Fusion 360 > Fusion 360 IdeaStation : Top Ideas

IdeaStation: Request a Feature or Enhancement

Search IdeaStation 🔍

How do I get my idea in Fusion 360?

LEARN MORE

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RECENT POPULAR MOST VOTED IMPLEMENTED ANALYTICS **Submit an Idea**

View all Sort by Default ⚙️ Previous 1 2 3 ... 38 Next »

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Link to website

cloud sync • upload deltas and
in reverse chronological order

API Text Editor Options

✓ Extruding Offset from
Surface ☺

Post Features Scrapped

The diagram illustrates a sample post from MooSooBoo, with arrows pointing to specific features and their implementation status. The features are numbered 1 through 8:

- 1. Post name**: Points to the post title "Keyboard shortcuts".
- 2. User name**: Points to the user profile picture and name "MooSooBoo".
- 3. Date**: Points to the timestamp "06-06-2013 12:42 AM".
- 4. Post views**: Points to the view count "17252 Views".
- 5. Post labels**: Points to the "Labels" section, specifically the label "User interface".
- 6. Post Status**: Points to the "IMPLEMENTED" status badge in the top right corner.
- 7. Post content**: Points to the main text of the post: "The mouse interface is very cool, but personally I find a combination of the keyboard and mouse faster, whether I am doing CAD, photoshop, whatever."
- 8. Post kudos**: Points to the "218 Votes" and the "VOTE" button.

The post itself is titled "Keyboard shortcuts" and is by "MooSooBoo" on "06-06-2013 12:42 AM". It has "218 Votes" and a "VOTE" button. The content is "The mouse interface is very cool, but personally I find a combination of the keyboard and mouse faster, whether I am doing CAD, photoshop, whatever." The post has labels "User interface" and "Keyboard Shortcut...". It also has tags "Keyboard Shortcut...", "user interface", and "View All (2)". At the bottom, there are buttons for "Permalink", "Post a Comment", and "View Comments (121)".

Why



The Business Context

Good UX means good ROI

- According to FastCo, **every dollar spent on UX brings in between \$2 and \$100 dollars in return** (1)
- With today's market of user-friendly products, **customers will seek alternatives if their voices go unheard**. Companies risk losing their users, brand credibility, and revenue.
- The Design Management Institute estimates **design-led companies outperform the S&P by 228%** (2)

(1) <https://www.fastcodesign.com/1669283/dollars-and-sense-the-business-case-for-investing-in-ui-design>

(2) <http://www.dmi.org/blogpost/1093220/182956/Design-Driven-Companies-Outperform-S-P-by-228-Over-Ten-Years--The-DMI-Design-Value-Index>

How



The Method

Create a model that predicts the likelihood of an idea being implemented

1. **Use Google Sheets to scrape the summary content of IdeaStation posts:**
 - a. Author
 - b. Date
 - c. Category
 - d. Content
 - e. Status
 - f. Kudos (votes)
 2. **Connect data to Jupyter notebook**
 3. **Cluster posts** by theme, status, and similar words
 4. **Write a model** that predicts “Implemented” post status
-

Scraping the forums

Data dictionary

1. - **2 types of machine learning**
 2. - **metrics**
 3. - **Compare to null model score, if supervised,**
 4. - **r² score**
 5. - **1-2 slides representing data dictionary (rows/columns)**
 6. - **process / what you learned**
 - 7.
3. **Cluster posts** by theme, status, and similar words
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Machine learning

Model #1

1. - **2 types of machine learning**
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 6. - **process / what you learned**
 - 7.
3. **Cluster posts** by theme, status, and similar words
 4. **Write a model** that predicts “Implemented” post status
-

Machine learning

Model #2

1. - **2 types of machine learning**
 2. - **metrics**
 3. - **Compare to null model score, if supervised,**
 4. - **r2 score**
 5. - **1-2 slides representing data dictionary (rows/columns)**
 6. - **process / what you learned**
 - 7.
3. **Cluster posts** by theme, status, and similar words
 4. **Write a model** that predicts “Implemented” post status
-

Machine learning

Null model score / R2 score

1. - **2 types of machine learning**
 2. - **metrics**
 3. - **Compare to null model score, if supervised,**
 4. - **r2 score**
 5. - **1-2 slides representing data dictionary (rows/columns)**
 6. - **process / what you learned**
 - 7.
 3. **Cluster posts** by theme, status, and similar words
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-

Outcome

What I learned

1. - **2 types of machine learning**
2. - **metrics**
3. - **Compare to null model score, if supervised,**
4. - **r² score**
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6. - **process / what you learned**
- 7.
3. **Cluster posts** by theme, status, and similar words
4. **Write a model** that predicts “Implemented” post status

Outcome

Next steps

1. **Analyze other forums** d
 2. **Share with other product teams**
 3. **Using for other forums**
 - 4.
-

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