

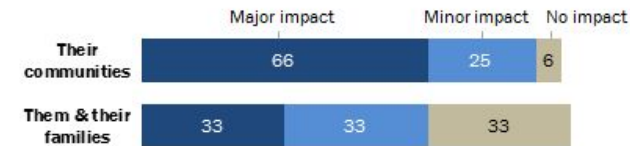
Library Statistics & Research

Pew Research of 2016:

Graphs & Data	Brief Description																								
<p>Traditional activities – borrowing books or reading – dominate library use, but people are also attending classes or other programs</p> <p><i>% of U.S. library users ages 16 and older who say they did the following at libraries in the past 12 months</i></p> <table><thead><tr><th>Activity</th><th>2015</th><th>2016</th></tr></thead><tbody><tr><td>Borrow print books</td><td>66%</td><td>64%</td></tr><tr><td>Just sit and read, study, or watch or listen to video</td><td>53%</td><td>49%</td></tr><tr><td>Get help from librarians</td><td>42%</td><td>35%</td></tr><tr><td>Attend classes, programs, or lectures</td><td>17%</td><td>27%</td></tr><tr><td>Attend meetings of a group you belong to</td><td>16%</td><td>18%</td></tr><tr><td>Search online or apply for jobs online</td><td>15%</td><td>14%</td></tr><tr><td>Use 3-D printers or other high-tech devices</td><td>9%</td><td>13%</td></tr></tbody></table> <p>Note: 48% of those ages 16 and older used libraries or bookmobiles in the past 12 months. Source: Survey conducted March 7-April 4, 2016. "Libraries 2016"</p> <p>PEW RESEARCH CENTER</p>	Activity	2015	2016	Borrow print books	66%	64%	Just sit and read, study, or watch or listen to video	53%	49%	Get help from librarians	42%	35%	Attend classes, programs, or lectures	17%	27%	Attend meetings of a group you belong to	16%	18%	Search online or apply for jobs online	15%	14%	Use 3-D printers or other high-tech devices	9%	13%	<p>This graph percentage of people who utilized the library between 2015 & 2016. The main purposes people use the library, including various resources.</p> <ol style="list-style-type: none">1. Borrowing Books2. Just to Relax (reading, studying, or watching videos)3. Assistance from Librarians4. Attend Classes5. Attend Meetings
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<p>Doing research or checking email are the most frequent uses of library tech resources, but more people are using them to take classes online than last year</p> <p><i>% of U.S. library computer users ages 16 and older who used library computers in past 12 months to ...</i></p> <table><thead><tr><th>Use</th><th>2015</th><th>2016</th></tr></thead><tbody><tr><td>Do research for school or work</td><td>60%</td><td>61%</td></tr><tr><td>Check email or send texts</td><td>58%</td><td>53%</td></tr><tr><td>Get health information online</td><td>42%</td><td>38%</td></tr><tr><td>Take online classes or complete an online certification</td><td>17%</td><td>26%</td></tr></tbody></table> <p>Note: 23% of adults ages 16 and older used library computers/internet connections in the past 12 months. Source: Survey conducted March 7-April 4, 2016. "Libraries 2016"</p> <p>PEW RESEARCH CENTER</p>	Use	2015	2016	Do research for school or work	60%	61%	Check email or send texts	58%	53%	Get health information online	42%	38%	Take online classes or complete an online certification	17%	26%	<p>This graph illustrates the use of library internet and computers by some users. The main four reasons people use technology at the library are:</p> <ol style="list-style-type: none">1. Do Research2. Check Email & Send Texts3. Get Health Information4. Take Online Classes or Complete Online Verification <p><i>*This information is important since it demonstrates the increase application of technology in this day of age*</i></p>									
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People think closing their local public libraries would hurt communities

% of U.S. adults ages 16 and older who say closing their local libraries would have the following impacts on ...



Source: Survey conducted March 7-April 4, 2016.
"Libraries 2016"

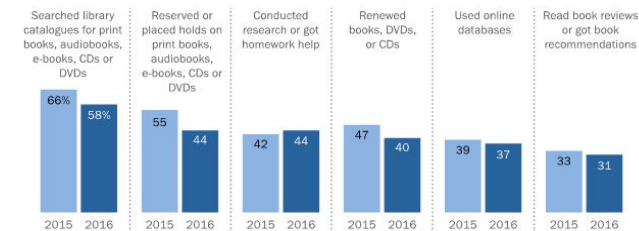
PEW RESEARCH CENTER

These percentages convey the impact that a public library will impact people. According to the data, 66% believe it will have a major affect their community. However 33% believe it will have a major effect on their family.

This projects a bigger picture. Libraries will affect an entire community compared to individuals

For Americans using libraries digital tools, searching library catalogues for content is the most prevalent activity

% of U.S. library website users ages 16 and older who have done the following on library websites in the past 12 months



Note: 28% of those ages 16 and older who used library websites or mobile apps in the past 12 months.
Source: Survey conducted March 7-April 4, 2016.
"Libraries 2016"

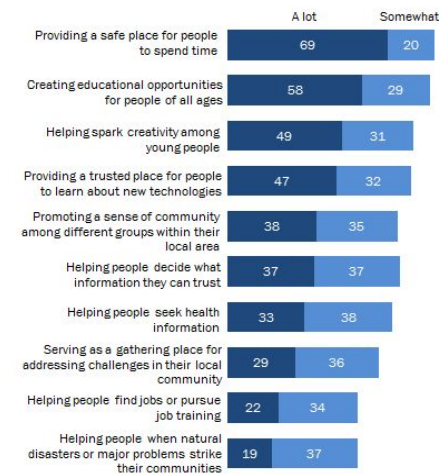
PEW RESEARCH CENTER

This bar graph depicts the activities performed using the library's technology.

This demonstrates the decrease in checking out books and the increase in computer research between 2015 to 2016

People see libraries as a safe place, a source of educational opportunity and trusted information, as well as a place to ignite creativity in young people

% of U.S. adults ages 16 and older who say libraries contribute 'a lot' or 'somewhat' to their communities by ...



Source: Survey conducted March 7-April 4, 2016.
"Libraries 2016"

PEW RESEARCH CENTER

This data presents the perspective people have of libraries. 69% of people recognize it as a safe place for people to spend time.

<http://www.pewinternet.org/2016/09/09/library-usage-and-engagement/>
<http://www.pewinternet.org/2016/09/09/americans-attitudes-toward-public-libraries/>

Father Andrew P. Kashevaroff State Library - Juneau, Alaska:

The design is inspired by the culture and landscape of Alaska. Its curved roof references a bird's protective wing, and its high windows keep visitors connected to the surrounding mountainous landscape as they're reading inside.

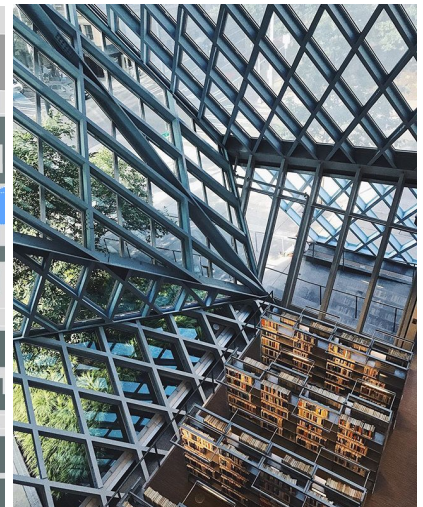
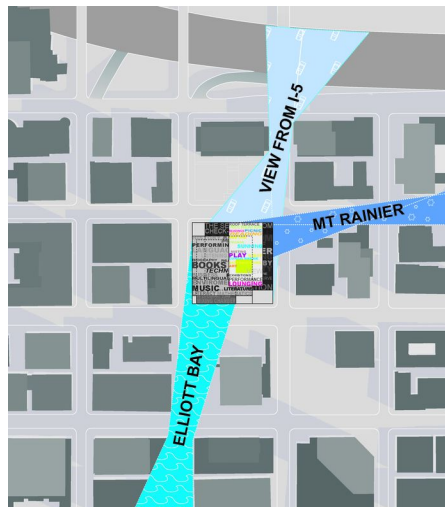
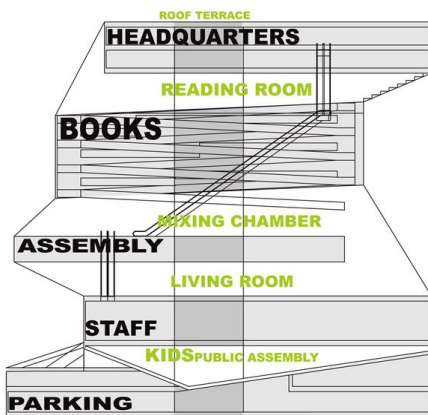
Arabian Library - Scottsdale, Arizona:

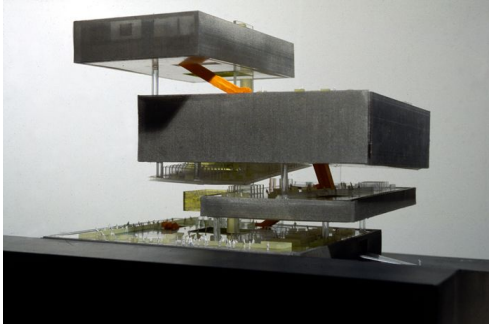
A modern library that takes inspiration from its landscape — the sprawling desert canyons of northern Arizona. It's not hard to get the reference with its weathered walls and narrow "canyon courts," which open up to the sky.

Yate Library - Yate, United Kingdom:

The arrangement of the library is intended to provide a balance between open and individual spaces. Unlike most libraries, this one has a sense of fluidity with the application of curve library shelves.

Seattle Central Library - Seattle, Washington:





<https://oma.eu/projects/seattle-central-library>

The design is divided into multiple levels that corresponds to a specific section. Seattle's unusual 11-story glass is intended to pace yourself through each part. There's a lot that makes this building unique, including its "book spiral," a winding array of shelves connected by ramps that allow visitors to browse the bookshelves without ever heading to another floor. The main focus is the arrangement of the interior rather than the design of the exterior.

Library of Alexandria - Alexandria, Egypt:

Natural light plays an optimal role in the design of this library. With an angular design and glass roofs, this library is intended to step into the past. With various artifacts placed throughout this space and wooden interiors, this public library screams history.

Stockholm Public Library - Stockholm, Sweden:

This circular architecture surrounds the readers by a vast number of books. The desks and chairs located in the center of the room allow users a place to relax and complete task. As opposed to most libraries, the central space acts as a place of connection between people while the shelves has a connection between readers and resources.

Samitaur Buildings:

Following the idea of renovations, these structures utilized the space in the air rather than the basic land we use for architecture. Not only that, the structures have more unique approaches compared to the typical styles we see. Even though this isn't a library, it still presents a unique way to utilize space.

12 Major Trends in Library Design:

- ENVISION THE LIBRARY AS PLACE
- MAKE COLLABORATION A MUST
- SEE THAT TECHNOLOGY DRIVES THE BUS
- USE THE LIBRARY TO ATTRACT AND RETAIN TOP STUDENTS
- OPTIMIZE SPACES BETWEEN SPACES
- CONSOLIDATE EMERGING SPECIALTY SPACES

- DESIGN FOR ENVIRONMENTAL SUSTAINABILITY

<https://www.bdcnetwork.com/12-major-trends-library-design>

Carrollton Public Library:



US Dept of State Geographer, SKEnergy, Landsat/Copernicus, Google

1. History

- The building use to be a grocery store in the 1980's called Food lion
- The store eventually shut down and was bought in 1999
- F&S Architects came in and did major remodelings to the place
- Opened the Carrollton Public Library in 2001

2. Special Events

- **Kid Events:**
 - **Toddler Story Time** - Children and a parent or caregiver participate in early language learning through stories, songs, rhymes, and movement.
 - **Pre-K Story Time** - Children develop early literacy skills through stories, songs, finger plays, action rhymes, and movement. Story

times are designed to help children practice the skills needed to get ready for school.

- **Teen Events:**
 - **Tween Game Night** - Time to test those friendships and see if they can survive a game night! Bring your friends and try out the latest and greatest games.
 - **STEM Story Time** - This storytime will involve a book-sharing and a hands-on STEM activity every week led by an engineer with a local, 3D printing and engineering technology company.
- **Adult Events:**
 - **Tax Assistance with AARP** - Volunteers with the American Association of Retired Persons (AARP) provide free tax return assistance.

3. Resources Provided

- Books
- Printers
- Tax Help & Information
- Job Hunting Resources
- Test Prep Resources
- Ebooks
- DVD's
- Computers (Outdated)
- Study Rooms

4. Questions

- What is the library used for?
 - Place for Voting
 - Place for Conference Meetings
 - Community Events
- Who goes to the library?
 - High School Students
 - Workers
 - Tutors

Psychology of Architectural Space

- Psychological Demands of the Built Environment, Privacy, Personal Space and Territory in Architecture
<http://article.sapub.org/pdf/10.5923.j.ijpbs.20130304.04.pdf>
 - Architecture should give workers flexibility and control in a work environment, conversions between open to private conditions.

- Individual Space allows users to focus on productivity and allow privacy in a public space
- Space identification is key to peaceful interactions between people and easy recognition in a public space.
- Why Light Matters: Designing with Circadian Health in Mind
<https://www.metropolismag.com/interiors/healthcare-interiors/why-light-matters-designing-with-circadian-health-in-mind/>
 - Depending on how light is regulated, Blue intense lights generate a sensation similar to coffee.
 -

F&S Architects of Dallas

- They merged with Smithgroup of Dallas
- Designed the Carrollton Public Library at Josey Ranch as well

Requirements for a Two-Story Building

- Depending on the foundation of the structure, an additional level can be allowed if the structure can support the extra weight
- Consider the following when adding another level:
 - **Avoid awkward massing.** Doubling the height of a plain, rectangular house can create a boxy effect. Offset it with roof pitches, overhangs, porches, and trim details.
 - **Deal with height restrictions.** Local building codes may restrict the height of ridgelines for houses in your neighborhood. Check with your city officials before you draw up the plans.
 - **Provide adequate structural support.** Some types of house foundations can't support a multilevel structure, so you should always check the foundation requirements for adding a second story. Also, rafters in a one-story house usually aren't strong enough to double as floor joists for a second story. Have a structural engineer evaluate your home's foundation and framing before you begin planning the new level.
 - **Avoid awkward fenestration.** Window size, shape, and placement in the new second story should coordinate with the existing story so openings line up or form pleasing patterns on each exterior wall from top to bottom.
 - **Maintain pleasing proportions.** Skimpy proportions that are unnoticeable on a small one-story house often become detracting when such a house doubles in size. Keep the individual elements of your house—such as windows, trim, eaves, shutters, columns, and dormers—in proportion with its new overall size by beefing them up or giving them extra visual emphasis (accent colors, contrasting finishes, etc.).

<https://www.bhg.com/home-improvement/remodeling/additions/second-level-home-additions/>

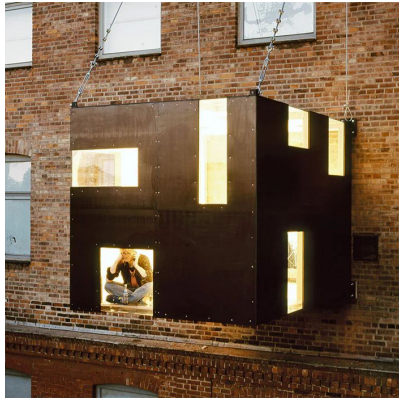
- This kind of process tends to cost more compared to taking up a piece of land since more demolition is involved.

Parasite Building

- Parasitic architecture is indeed defined by its jarring presence – extensions to existing buildings that are designed to stand prominently apart both in material and form.



(Credit: Peter Zaytsev)



(Credit: Claus Bach)



(Credit: Project Orange)