



Introduction to Project Management

October 5, 2023

Day 4



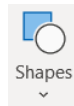
Today's objectives

- Recap from Day 3
- Tools, Templates and Technology
- Advantages of Project Mgmt Certifications
- Q & A
- Wrap up
- What did you get out of this lunch 'n learn?



Tools Templates and Technology

Project Name		Build Houses for Three Little Pigs					Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri	Mon	Tue	Wed	Thu	Fri
Project Manager		Momma pig					Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct	Oct
Project Start Date		Mon 10/02/2023					02	03	04	05	06	09	10	11	12	13	16	17	18	19	20	23	24	25	26	27
Project End Date (Goal)		Thu 11/30/2023					2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023
Task ID	Task Name	Duration	Predecessor	Lag	Start Date	End Date	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16	P17	P18	P19	P20
1	Start Straw House	0			Mon 10/02/2023	Mon 10/02/2023																				
2	Buy Straw	2			Mon 10/02/2023	Tue 10/03/2023																				
3	Get Straw	1	2		Wed 10/04/2023	Wed 10/04/2023																				
4	Build House	3	3		Thu 10/05/2023	Mon 10/09/2023																				
5	Finish Straw House	0	4		Tue 10/10/2023	Tue 10/10/2023																				
6	Start Stick House	0			Mon 10/02/2023	Mon 10/02/2023																				
7	Find Sticks	4			Mon 10/02/2023	Thu 10/05/2023																				
8	Transport Sticks	1	7		Fri 10/06/2023	Fri 10/06/2023																				
9	Build House	6	8		Mon 10/09/2023	Mon 10/16/2023																				
10	Finish Stick House	0	9		Tue 10/17/2023	Tue 10/17/2023																				
11	Start Brick House	0			Mon 10/02/2023	Mon 10/02/2023																				
12	Buy Bricks	5			Mon 10/02/2023	Fri 10/06/2023																				
13	Transport Bricks	2	12		Mon 10/09/2023	Tue 10/10/2023																				
14	Build House	12	13		Wed 10/11/2023	Thu 10/26/2023																				
15	Finish Brick House	0	14		Fri 10/27/2023	Fri 10/27/2023																				



Tools, Templates and Technology

Tools / Templates

- Task Lists
- Templates
- PERT & Critical Path
- Gantt Chart

Technology

- Paper, Sticky Notes and Whiteboards
- Software
 - Microsoft Excel
 - Microsoft Project
 - Microsoft OneNote
 - Microsoft Word
- Apps for Smartphones
- Communication Technology
 - Email
 - Shared folders
 - Websites

Task List

- **Lists tasks** associated with the project
- **Tasks** are **activities** that need to be **completed**.
- Each task has a **name**, **duration**, **start date**, and **end date**.
- Each task may have related **predecessors** tasks, **lag time**, **assigned resources**, and **notes**.
- Usually, the **task start date** is **determined by** the **predecessor end date** plus **lag time**.
- **Assigned resources** are **people**, **equipment**, and/or **scarce supplies** that are needed to complete the task.

Task List

Project Name	Build Houses for Three Little Pigs							
Project Manager	Momma pig							
Task ID #	Task Name	Duration	Predecessor ID	Lag Duration	Start Date	End Date	Assigned Resources	Notes
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								

Predecessors, Paper, and Sticky Notes

Tasks for the Seven Dwarfs

- Dig for diamonds
- Drive home
- Drive to mine
- Finish
- Load diamonds and equipment back into the truck
- Move equipment into mines
- Start



Task List

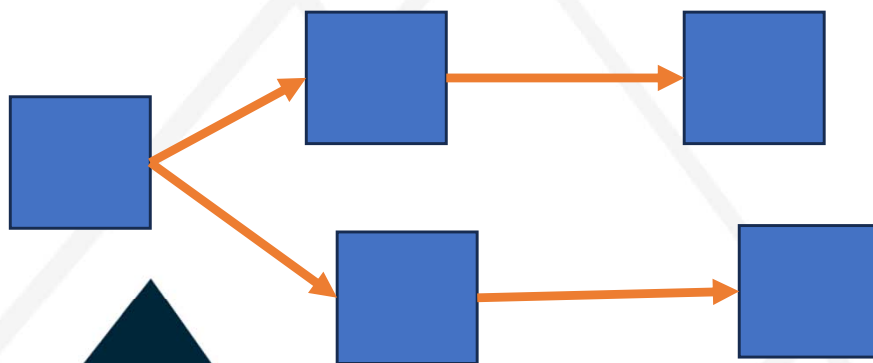
Project Name	Get diamonds out of the mine							
Project Manager	Doc							
Task ID #	Task Name	Duration	Predecessor ID	Lag Duration	Start Date	End Date	Assigned Resources	Notes
1	Start	0			Mon Oct 9, 2023	Mon Oct 9, 2023		
2	Drive to mines	2 D	1		Mon Oct 9, 2023	Tue Oct 10, 2023	Doc	
3	Move equipment into mines	1 D	2		Wed Oct 11, 2023	Wed Oct 11, 2023	Everyone	
4	Dig diamonds	12 D	3		Thu Oct 12, 2023	Fri Oct 27, 2023	Everyone	
5	Load diamonds in truck	3 D	4	- 2 D	Thu Oct 26, 2023	Mon Oct 30, 2023	Everyone	
6	Drive home	3 D	5		Tue Oct 31, 2023	Thu Nov 2, 2023	Doc	+
7	Finish	0	6		Thu Nov 2, 2023	Thu Nov 2, 2023		

PERT Chart

Program Evaluation Review Technique

“A project management tool (PERT) chart is **graphically representation** of a project’s timeline that **displays all** of the individual **tasks** necessary to complete the project.”

<https://www.investopedia.com/terms/p/pert-chart.asp>

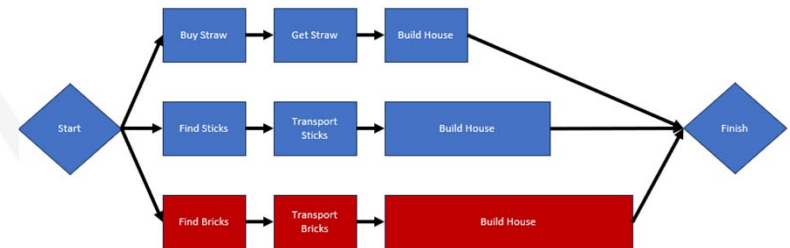
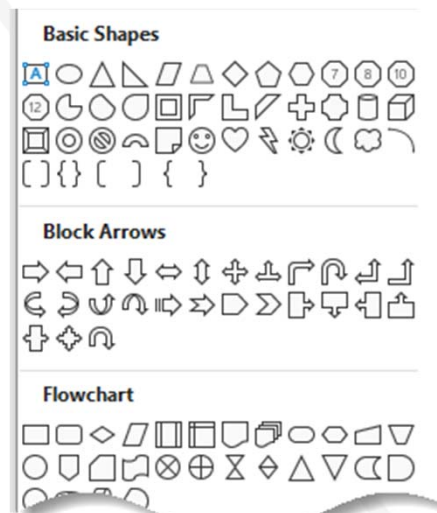


See example at

<https://d2slcw3kip6qmk.cloudfront.net/marketing/blog/2017Q2/PERT-chart-example-2.png>

PERT Chart – How to create

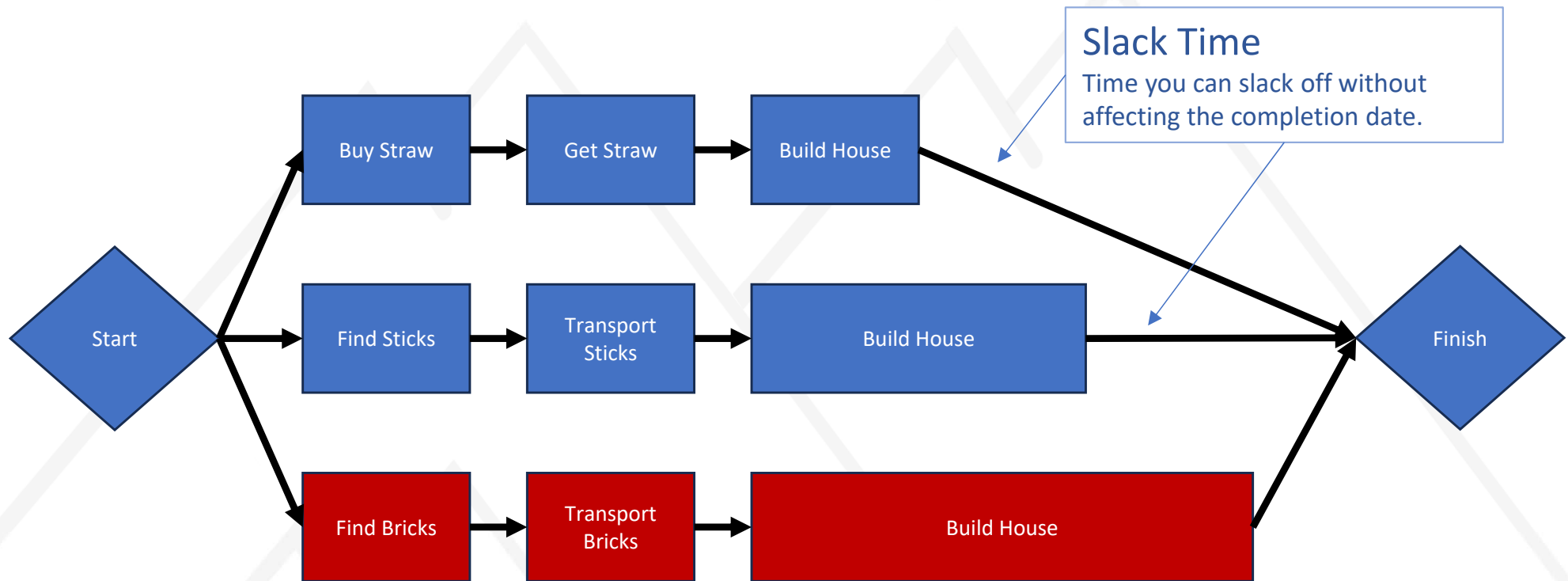
- Each **task name** and **duration** is put on a **Sticky note**.
- **Sticky notes** are placed on a **whiteboard** or **wall** in **sequential order**.
- Each Sticky Note is then **recreated electronically** in **Word, Excel** or **PowerPoint** using the **Insert Shapes** command.



Exercise: PERT and the 3 Little Pigs

- Begin Project
- Build Brick House
- Build Stick House
- Build Straw House
- Buy Bricks
- Buy Straw
- End Project
- Find Sticks
- Finish Brick House
- Finish Stick House
- Finish Straw House
- Get Straw
- Start Brick House
- Start Stick House
- Start Straw House
- Transport Bricks
- Transport Sticks

PERT Chart



Critical Path

The brick house takes the longest and therefore determines the duration of the whole project. It is therefore **critical** that its tasks not be delayed.

- Created by Henry L. Gantt.
- It graphically **displays** the **tasks** on a **timeline**.
- Can be created in Excel, OneNote, and MS Project.

[illegible]

- Open the Template.
- Enter the tasks, durations, predecessors, and lag time.
- Do not enter the start and end dates, as they are calculations.

[illegible]

MS Project



Buying Microsoft Project 2021

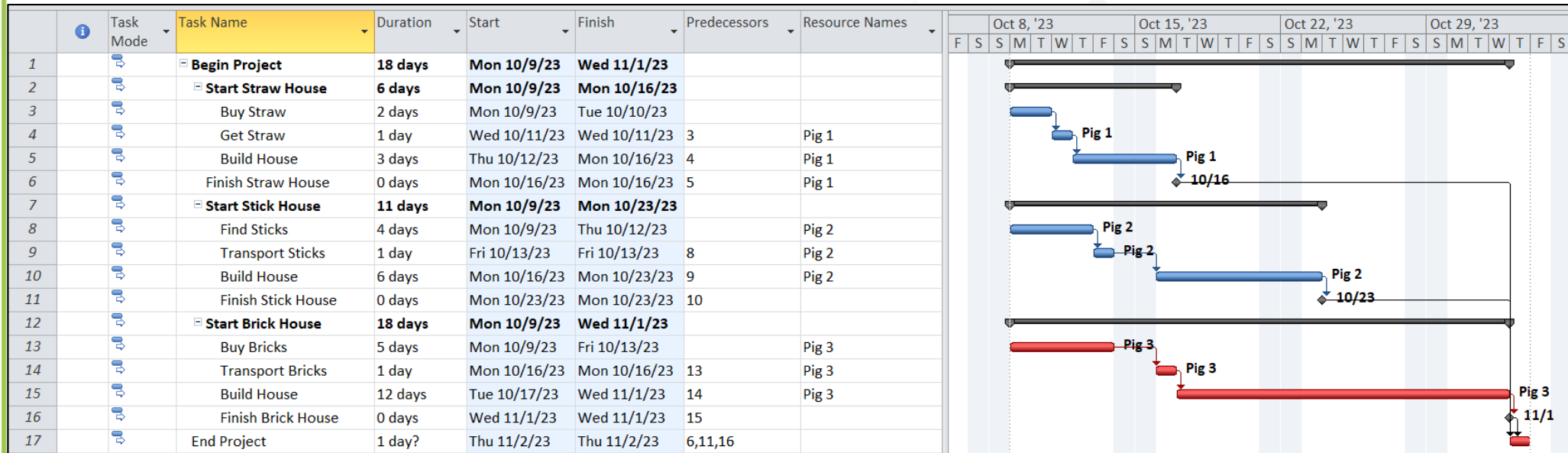
- Microsoft has 3 cloud-based solutions
 - Project Plan 1 - \$10 user / month
 - Project Plan 3 - \$30 user / month
 - Project Plan 5 - \$50 user / month
- Microsoft has 3 On-premise solutions
 - Project Standard 2021 - \$679 (one-time purchase)
 - Project Professional 2021 - \$1,129 (one-time purchase)
 - Project Server – price not listed

Source: <https://www.microsoft.com/en-us/microsoft-365/project/compare-microsoft-project-management-software>

Gantt Chart in MS Project

- Open the Template.
- Enter settings (File, Options, Schedule).
- Enter the tasks, and durations.
- Indent to create summary and subtasks.
- Link tasks to identify predecessors.
- Assign Resources in the Resource Names column.
- Do not enter the start and end dates, as they are calculations.

Gantt Chart in MS Project



Microsoft OneNote

- Microsoft OneNote is like an electronic notebook / 3 ring binder.
- It can contain many Notebooks.
- Each Notebook can have many sections.
- Each section can have many pages and 3 levels of subpages.
- Each page has an infinite length.
- Each page has a title, and create date and time.
- Each page can have a mixture of text, images, and more.
- OneNote comes with multiple templates.
- You can buy additional templates from various vendors on the web.
Example: https://www.etsy.com/market/onenote_project_template

Microsoft OneNote Example

The screenshot displays the Microsoft OneNote application interface. The title bar at the top shows "Project Charter - OneNote" and the user "Tom Chandler". The ribbon menu includes tabs for File, Home, Insert, Draw, History, Review, View, and Help. The Home tab is active, showing options for Clipboard, Basic Text, Styles, Tags, Email, Meetings, and Voice. The left sidebar shows a list of notebooks, with "Project Mgmt by TechMentors" selected. The main content area displays the "Project Charter" page, which includes a title, a date and time stamp, and a table with the following data:

Project Name	
Project Manager	
Start Date	
Goal Date	

Below the table, the page content includes the following sections:

- Problem Summary
- Desired Outcome
- Business Case / Benefits
- Scope & Boundaries
- Roles & Responsibilities

Microsoft Word Example

{Recipient Name}
{Recipient Address}

{Salutation}:

{Client First Name}
Separation or Dissolution} of
and {Client First Name} feels
you. {Client First Name} has
manner as possible with the h
agreement.

Petition Cover Letter

Date:

October 4, 2023

Recipient Name:

Abraham Lincoln

Recipient Address:

301 South Second Street
Springfield, IL 62701

Client First Name:

Mary

Client Full Name:

Mary Todd Lincoln

Client Pronouns

she / her / her

Separation or dissolution

Legal Separation

Opening Salutation:

Dear

Mr.

Lincoln

Closing Salutation:

Very truly yours,

Ellen Winick Stross

About

Sample

Build

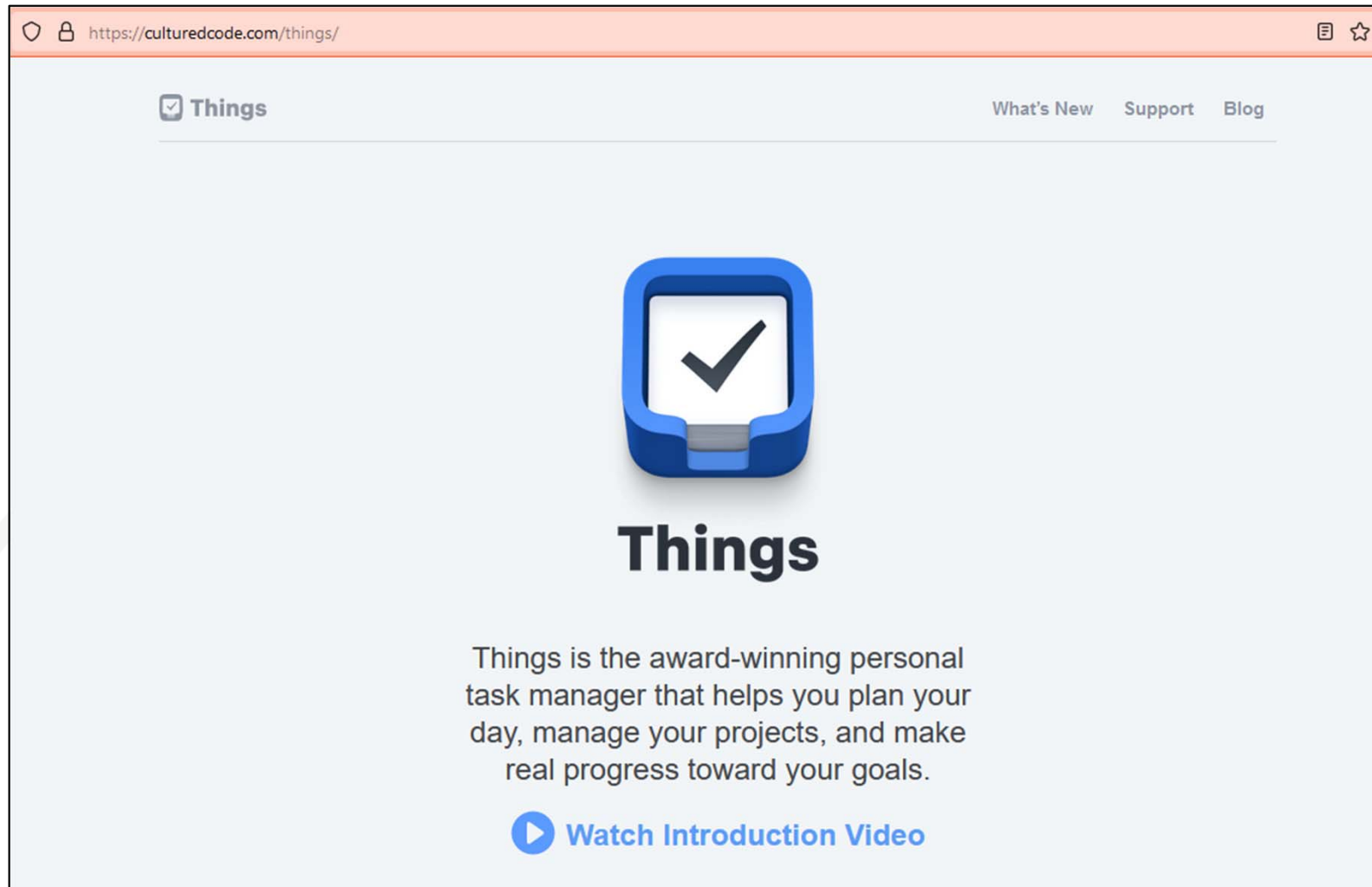
Cancel

In order to expedite this dissolution proceeding, you will find enclosed endorsed-filed copies of the Petition for {Legal Separation or Dissolution} with Declaration Under Uniform Child

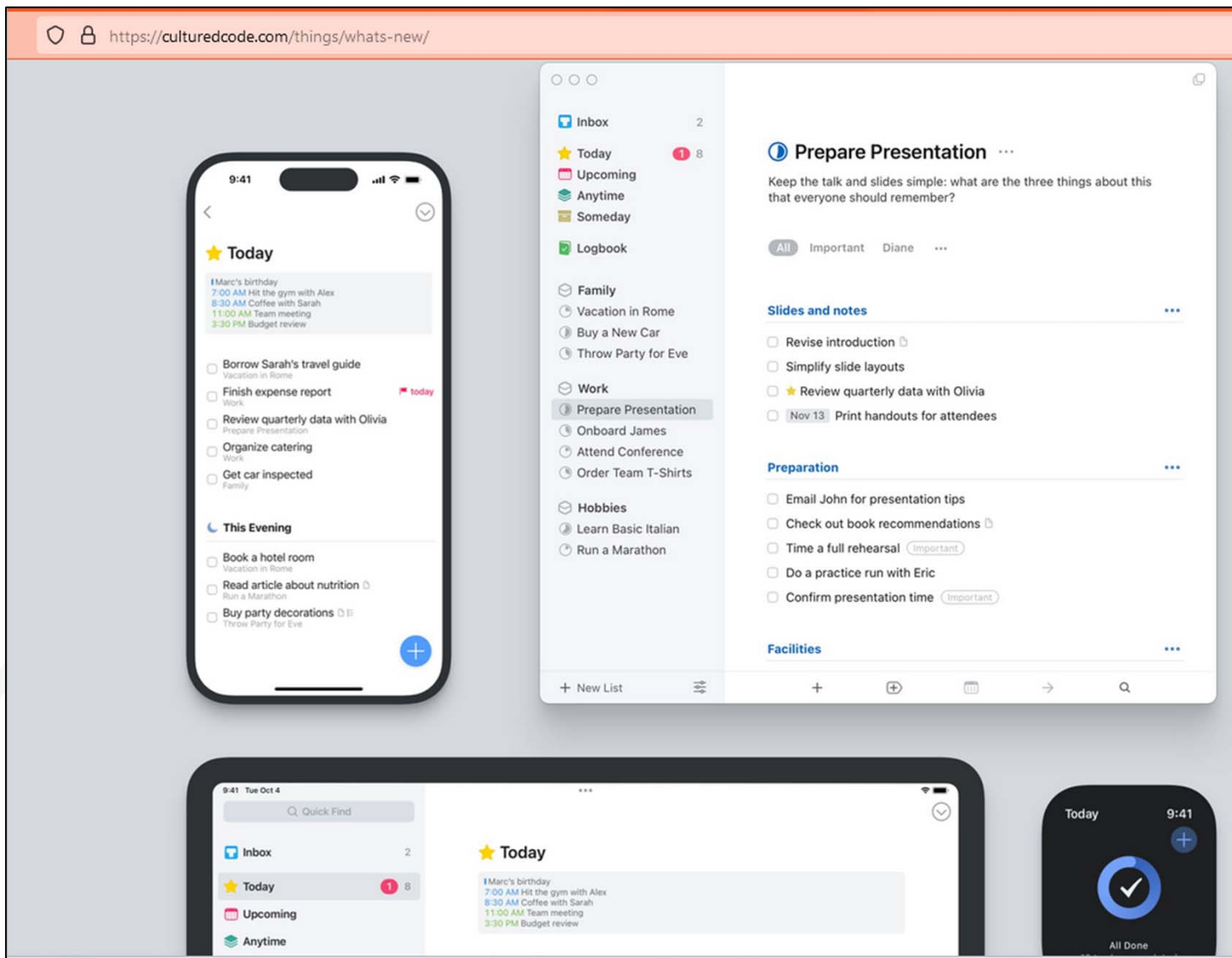
Apps for Smart Phone



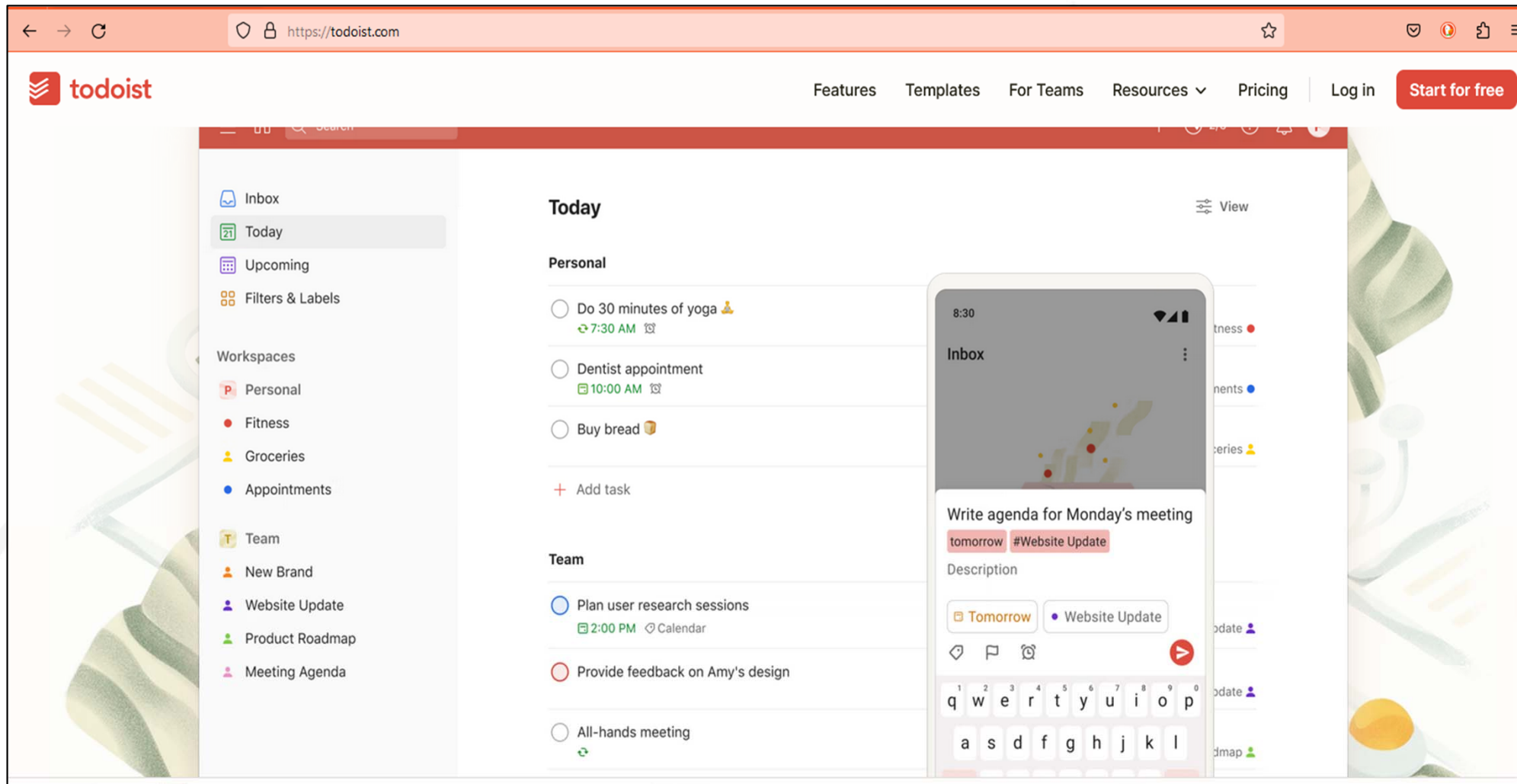
Task Management App: **Things**



<https://culturedcode.com/things/>



Task Management App: Todoist



<https://todoist.com/>

https://todoist.com/templates

todoist

Features

Templates

For Teams

Resources ▾

Pricing

Log in

Start for free

Search templates

Categories

All templates

2023 Goals

Marketing & Sales

Creative

Personal

Support

Design & Product

Boards


Development

Education

Work


Management

All templates




1-on-1 Meeting

Ensure priorities are clear and keep a pulse on how your team'...




Accounting Tasks

Create a system to keeps your books, receipts, and invoices...




Annual Review

Use this template to review everything – big and small – fro...




Appointments

Never forget (or forget to prepare for) another meeting or...




Blog Post

Go from inspiration to publication with this template for your blog.




Book Writing

Plan your writing and organize your schedule as you draft your...



Bug Tracking

Craft an organized bug tracking system to keep things in order



Business Travel Packing

Never forget your laptop charger, hotel check, passport, etc.

Quick Comparison

Things

- Op. Sys: Apple only
- Cost: 1x buy of \$9.99 (iOS); \$19.99 (iPad); \$49.99 (Mac)
- Reminders: yes
- Templates: can create your own
- Labels or tags: yes
- Integrate with calendar: yes
- Team options: Apple family only
- Boards: no
- Number of Projects: unlimited

Todoist

- Op. Sys: Apple or Android
- Cost: Free (basic); \$48/yr (Pro); \$72/yr (Business) (or monthly)
- Reminders: With Pro or business
- Templates: With Pro or business
- Labels or tags: yes
- Integrate with calendar: yes
- Team options: with Pro or Business
- Boards: with Pro or Business
- Number of Projects:
 - 5 with basic
 - 300 or 500 with other versions

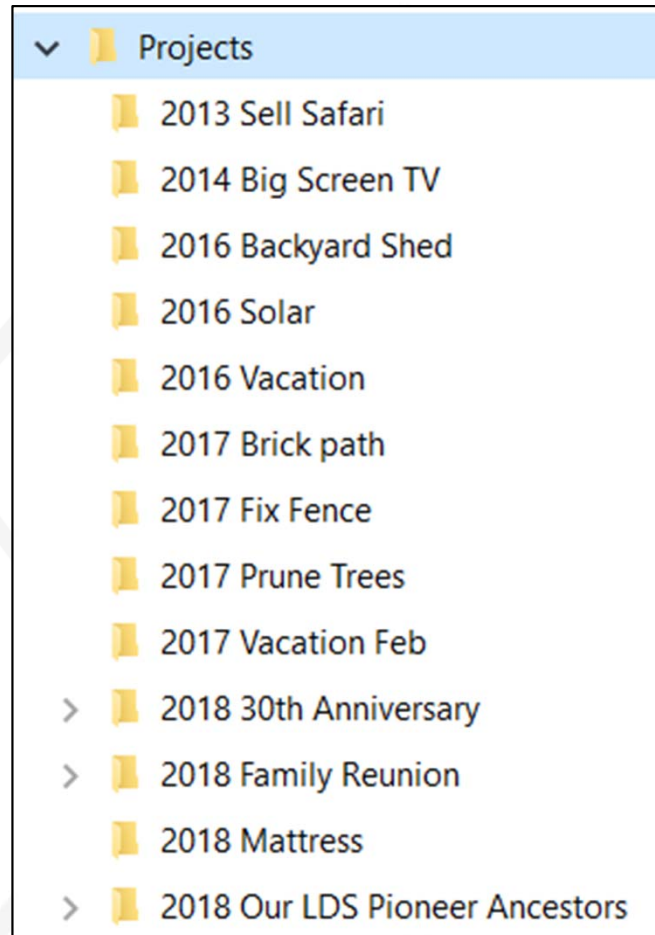
Communication Technology



Sharing information via Email

- Email can be used to share content with the project resources, team members, stakeholders, etc.
- Before sending an attachment, be sure to scrub it for inappropriate material.
 - Word: **File, Info, Inspect Document**
 - Excel: **File, Info, Inspect Workbook**
 - PowerPoint: **File, Info, Inspect Presentation**
- Attach from the program
 - Word, Excel and PowerPoint: **File, Share, Word Document | PDF.**
 - OneNote: **File, Export, Page | Section | Notebook, pick a format, click **Export**, and then **attach to email message**.**

Folders



Folders – Best Practices

- Create **one** main **project folder** / **client folder**
- Create **one** main **subfolder** per **project**.
- Every user should **know the folder structure**.
- **Use security features** to ensure only the right people can access secure files.
- Teach your users to **store files on the shared folder**.
You don't want the latest file sitting on someone's hard disk who has gone to lunch and locked their computer.
- Ensure your IT department or vendor has a plan to **back up the shared data regularly**.

Using shared folders

- OneDrive, Google Drive, Dropbox, Box, Microsoft and others provide solutions for sharing files in the cloud.
 - Advantages
 - You can **access all your files from the internet**.
 - You do **not** need to **send files** via **email**.
 - Depending on the solution and the type of file, your team can **collaborate / edit documents on the fly**.
 - Disadvantage
 - You **need to be online to access your files**.
 - Cloud storage can be **hacked**, but **so can your computer**.
- When using such technologies, be sure your **clients** and **stakeholders** are aware and **approve** of the **related risks**.

Website and Project Information

- You can share project information on websites.
- This is **helpful** when there are **many stakeholders**, such as the public, that need to know some information about the project.
- However, this is a **bad idea** if the website is **open to the public** and has **sensitive information**.

Project Management Certifications



Project Management Certifications

www.pmi.org

• **Certified Associate in Project Management – CAPM Certification**

- Eligible to take exam with:
- High school diploma
- 23 hours qualified training
- Pass exam (150 Qs / 3 hours)
- Once certified, 15 PDUs every 3 yrs
- Exam fee: \$225 (PMI member) or \$300

Project Management Professional – PMP Certification

Eligible to take exam with:

- High school or associate's degree / bachelor's degree / GAC grad
- 35 hours qualified training
- 60 mo / 36 mo / 24 mo experience
- Pass exam (180 Qs / 230 minutes)
- Once certified, 60 PDUs every 3 yrs
- Exam fee: \$405 (PMI member) or \$555

Q & A



Questions & Answers

- How do you troubleshoot a project that is behind schedule?
- How do you hold people accountable?
- How do you deal with conflict between stakeholders?
- Other questions...