e Scarm Guide. 2013
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Debrition Ob Scrom.
Scrom (n): A transeroch continuo shidh people con address comples adaptive problems, while productively and creatively delivering products of the highest possible value.
Analysis: Scrom is a francisch. Not a methodology.  Framework implies something you build  Upon  A frame work implies "It is not complete
It addresses complex and adoptive problems because it was an empirical process to analyze the work chone. By regularly checking to see it the right thing to being clone.
Productively - By continuately (solving for very) to do things bester (Retrospertive)
Creatiely - By using eveniones input to solve problems Problems are raised through daily serum & retrospective.  Highest Possible Value through defining Ovality through the definition of Done.  Never compromising on quality.
Open to abuse. People who use serum on a method to get things done quickly leave out goality altogether.
Seron 1s:
· lightweight  · Simple To Understand
· Difficult to Master.  Because it is consimple, it is easily communicated.
Because it is simple, things can be skipped and mis interpretal. Opening up avenues of abuse. Its simplicity can give a false sense of mostery. Especially when not fully understood.

Scrum to a process fromework that has been used to narrige complex product development since the early 1990s. It is not now. It as been around for over 20 years. Age doe not guarantee feesalility - But its a good orguement 62.A~ Scrom is not a process or techniques for building proclusts; rather it is a framework within which you can employ vorsoes process and techniques. A framework is something you build upon. A base The mere fact it is a frame work wints chapping and changing to soit your needs - It implies things can be "taken out ? Sorom makes clear the relative efficacy of your product management and development practices so that you an mprove Efficient - The ability to get the job done under ideal https://en.m.wikipedia.org/wiki/Efficacy https://en.m.wiktionary.org/wiki/efficacy By making things clear, you can change it things are bad. Order Icleal conditions, Doron't crok in the real world! (Bah Homby) Conditions are never ideal.

Because you have us bility - nothing to stopping you from changing things to make them ideal. Hence improve! The scrom framework onsists of Scrum Teems and their associative notes, events, artifacts, and rules. Each component within the scrom tramework serves a specific purpose and is essential to Scrum's success and usage.

Everything in Sarum serves a purpose - it is not get there yest for the hell of it!. But use don't need all those things. It takes up too much time! We can live without it all.

The roles of Scrom bind together the events, roles, and ortifacts, governing the relationships and interactions between them. The roles of Scrum are described throughout the body of this document.

The rule of sorum dictate has the roles, events, artifactsoverall the components videract with one another Roles? Who needs rules Can't you just get the 'qist' of it? Specific tactics for using the Serum framework vary and are described elsewhere Sire scrum's a framework to bild upon the to build upon it is covered outside this document. It also means scrom can be used astside softwere developments. Since how to follow severe is not covered for every situations and upo need to do more needing - pg wooden a mayonity of secrem (agillo implementations and thousandinos fail. Scrom Theory Scrom is forded on empirical process control theory, or empiricism caserts that knowledge comes from experience and making decisions on what is known Scrom employs an iterative, incremental approach to optimize predictability and control rish. · Make on assumption · Test that assumption · Evaluate that assumption - Determine what to do with the assumption · Repeat. Use a teedbuch loop to determine decisions. Base those cleerisions on evidence gerthered. Not speed lation Bot I just want to know the one true way that will Solve all my problems. Scrom does not give me that. It does not explain why it is better (on the process Three pillars uphold every implementation of empirical process control. Transparentay, inspection, and adaptation. Transparency Swindicard aspects of the procus must be visible to

those responsible for the outcome. Transportency registres those aspects be defined by a common stordard so observers share a common understanding of what so being seen. Stakeholders/ Developers, basically everyone involved must have a common language and point of reference to orderstand what is being seen - the process itself and all aspects of the implementation. For example: · A common language referring to the process must be shored by all participants; and, · Those performing the work and those accepting the work product must share a common ded into of Dark You don't need a common language, just fell the developers what to do. They are smart. They will figure it out. Done is done when I say it is done . So whet Hit hasn't been tested. Then it will be done done. Inspection Senon oses must frequently inspect Scrom omtracts and progres bound a sprint and to detect ondesirable variance. Their inspection should not be so frequent that inspection gets in the very of the work. Inspections are the most beneficial when diligently performed by skilled inspectors at the point of work. In otherwords, keep looking for problems (orderinable veriences)
Don't let the booking (and subsequent fixing) of problems get in the way of doing the work. Use the work to find and fix the scricines (variances taken from W. Edwards Deming ) The best inspectors are the ones who both do the work, but also Know what variances to both out for . Problems can also be defeats! But (don't have any variances/problems, Not having varianus/problems is a problem in an itself. LOOK HARDER! Adaptation It the respector determines that one or more ospects of the process deviate outside acceptable limits, and the resulting product will be unacceptable, the process of the material being processed must be adjusted. An adjustment

must be made as soon as possible to minimize further devication.

Here a feedback loop is established based on quality. If there is a deviation in "quality", be it soft wan quality a process quality then an "adjustment" is made to bring it back in line.

Also, the adjustment must be made as soon as possible, not only in terms of time (which dictates the agaletime of the feedback loop) but also in terms of where the variance is happening. By the I mean, fix the variance of the source, not after the inspection, ie. after the fact.

We have tests, we'll raise a tichet so the "variances" one fixed at some point in the near or distant future (if at all)

Somm prescribes for tomal events for inspection and adaptation, as described in the Sammenests section of this document:

- · Sprint Planning
- · Daily Sorom · Sprint Review
- · Spirmt Retrospective,

- Meetings, meetings and more meetings.

## Scrom Value

When the och so of Commitment, cources, focus, openess and respect one embostices and timed by the Somm term, the Somm pillors of Transporterity, inspection and adaption come to like and boiled trust for everyone.

Commismort Coopeach C	The Scrom Team Members learn and explore those values as they work as they work and or titacts.  Scrom Social for a Scrom depends on people becoming more protingent in living these five values.  People personally commit to achieving the goals of the Sanon team. The scrom team members have correct to do the right thing and work on touch problems.
Facus	

046~658	The right thing is not to use Serum.
RESPECT	
Sprint and the good	as atte Scrum Teem.
Le not tecus tee mu	eb on just the lash, but also improved the
work. Focusing on on	hep doing the some thing - because to oaks secret, some through one most businest,
Short get better just	the come the sime three because it gits
it takes ownerse to 5 to	op doing the work and focus on improving the
(34.76	<b>\</b>
all the sack and cha	cits stake holders agree to be open about whenever with performing the work. Its respect each other to be capuble, independent
Samm Team member	is respect each other to be capuble, independent
people.	
Here these values and	pillors are used to help build trest in the term.
Trat is when upo to	st the scrum moster to have your but
instructs, I rust that the	pillars are used to help build trest in the team.  st the scrum moster to have your bust be product Owner will not waste your time on
Trust that your tella	> Development teem members have your buch.
1211 1 50 6	mal Fred Tare
teem member will not	have your back. Put you down on your
weathness. Discorre	si I clear that are dillent.
This leads to lock of	contlict. The ability to discuss the
Sirce people no long	ther words, observe to correy and openess.
switch of . Are no long	ger committed. They no long- have
authority over how to	of responsibility. Thus have no respect for
their fellas tem men	bus,
Thus there is no focus.	on the goals. This & where scrum 'fails.

The son	nteam			
Scrom to Self organia the contact the contact	m team co rent Team, eurs one s in zincy tea , rother	insists of a cond a self-organi ums choo than being	Product Surum Mas 12 ing and se How kee y directed	owner, the ter. cross-functional of to organize by others outside
conhocal	or gives	0-ship	o and auth	nan be told what norty over their
Control our Etress one Mountain	r oper wo	ch, you are be more by	les libilia	ve a high sence of y to sulfer from also work horder. ]-
Selforgo	in 2 ines, Te	eums and	eld not do	anything-People
THE COOLING	July 1 Hour	Get Oorle	• • • • • • • • • • • • • • • • • • • •	
C.C.C. annuli	ictary to	ums have	desendir	etencies needed to
accompli	31/3 - 1 / E COV	VC 004(VB()	· coperati	g ari otras riot

part of the team. The team model in Sonn is designed to optimize flexibility, creativity, and productivity. By having team members that one cross functional - but not nessesanty proficient in all competencies, you can avoid delungs when someone is for example sich or or leave. someone can continue-The term an also shore the workload. No single person is carrying the team because they are the only person who knows that competency The ferm "Jack of all trades - moster of none "comes to mind. Good lock finding people its know everything It is the team as a whole who become the masters. Not individuals. Scrom Teams deliver products iteratively and incrementally maximizing opportunities for feedback. Incremental deliveries of "Done" product ensure a potentially useful version of working product is always awarlable. You are able to seek fedbach some. Make corrections earlier ord thus reduce the chance a going too for building the various thing. Thus reducing wasked extent sorving time and money. Jost get the damn specs right in the first place, heb to bucked down and signed is blood. Then it becomes the customes Frut to they got it wrong in the first place The Product Ormer The product owner is reopinsible for maximising the value of the product and the work of the Development Team. How this is done may very widely across organisations, Serum Teams, and The Product Owner is responsible for making some that the development teem optimises its work to proofice value. This can be done by - Prioritising work based on value. - Commonicating the buchlog to the development team so they understand what needs to be developed. - I'm getting ahead & myseld.

Mes-if you used Scrum to build a house, you would build the roof first ons that gives the most value . Then the walls then the floor Side Note: Yes - someone has used that argument with me before-The product owner is the sole person responsible for managing the Product Backlog - Product Backlog management includes: · Clearly expressing Product Backbay items. · Ordering the items in the product Bachley to best orchiever goals and mossons; · Optimising the value of the work the Development Team performs; - Ensuring that the product Bouchlog is usible, transportent, and clear to all and shows what the Scrum Teum will work on next; and · Ensuring the Development Team understands items in the Product Bachlag to the Level needed. The Product owner needs to make sure the Developments team has enough information to hit the arrowal running when thou start an item. This may be before the sprint (pretendole) or dorny-but it is the product assess responsibility. So short does the Sorum Master Do? Seems like the Product Owner does all the work The Product Owner may do the above work or have the Development Teem do it, However, the Product Owner remains accountable. The Product owner is one person, not a committee. This is so that only one persons piston is full filled. Not a bunch of random requirements from dutherent people. - Robocop II comes to mind where his directives were done by committee. He pretty much could not do anything without us lating something. The Product owner may represent the desines of the Committee in the product backley, but those overting to change a Product Backley item's priority must address the product Owner.

what happens if you got a product owner who givens the committee or the overs? That is a rish in which case it is on the Committee and product owner to work out. For the Product Owner To Scaceed, the entire oppoint action must respect his or her decisions. The Product Owners decisions are usible in the content and ordening of the Product Backlog. No one is allowed to tell the Development Team to work from a different set of legimements, and the Development Team (snit allowed to act on what anyone else says. This is actually to minimize the chopping and changing of tasks and then a developy is called by 5 different managed to cook done But how does anything get done? Marage A needs his thing. Marage B needs his line have mine. It all needs to be done and it Ell needs to be done now. The Development Team The development team consists of protectioners who do the work of delivering a potentially releasable increment of "Done" product at the end of each sprint. Only members of the Development team create the Increment. Bosically treat each sprint as a mini parized. You do not have projects where you do only documentations or a project that only does teating. You do everything and at the end of the project - you retease At the end of your sprint -you need to be in a postion to release. If needed! This then puts the decision to release on the product owner (the Business) and not hampered by the development team not being ready. But use are not in a position to release at the end of the sport There to too much to be done! You have taken on too much work for the sprint. -Slas down. Sometimes you need to staw down to speed - you need to break down the work more. Development teams are structured and empowered by the organisation to organize and manage their an use. The resulting synerom optimizes the Development Teams overall efficiently & effectiveness. etti cienty

The team chooses the work they do and has they do it By empored, they have the authority to accept an regent work on them see fit. If an item in the buchbar does not have enough into for the development team to bork on - an for them are uncomfortable do my - they hem the authority to say No, The fear doo works out the best way it an get the cost dore. But what is the Development team gets it wrong. They completely serve up. They need to be told what to do so this doesn't rappen. Yes a frem can scree up. Al though the team cannot be told what todo, they can be givided.

If they screes up - then they learn what they did didn't work. Instead & wosting months - only a sport (up to ( marsh) is worted This is a chance for all to learn. Development teams have the following Characteristics: They are self organizmy. No one not even the senon Master tells the development Team has to tran a product boulday who monements of potentially releasable functionality; · Development Team are cross-francis and, with all So, the Skills as a team necessary to create a product increments. · Scrum recognises no titles for Development Team members of the Han Developer, regardless of the work being performed by the person; there is no exceptions to this role; -No seriar develope -No architect -No teoter - No DBA etc, - So who leads the keam to there is no serion? - Its on Egaletarian structure. Everypre has a say Everyone & egyel. There would be anach Which is why the team of made up do Professionals are not ovinals!

- "Sonon recogin: so no Sub teams in the Development team, regardless of particular donicins that need to be addressed like teating on baxiness analysis; there are no exaptions to this role; and,
- · Induidual Development Team members may have Experied real Exills and areas of focus, but accountability belongs to the development team as a whole.

All for one and one for all, Everyone needs to both out

### Development Team Size

Optimal development team Size is small enough to remain numble and harge enough to complete significant work within a spirit. Fezer than three Development team members decrease interaction and results in smaller productivity opins.

If you have lor 2 developers, the interaction between developer is already there. Sorrow could actually decreese that interaction because It the formal times. This causes the productivity gains to not be so much as or lawyer terms.

So you see - seven downt work - albeit for smaller terms.

Smaller teems may encounter skill constraints during the sprint, consing the development teem to be consible to deliver a potentially released increment.

- Too few people may not have all the regimed shills

Having more than nine members regions too much coordination.
Lavage development Teams are nevalle too much complexity for an empirical process to manage. The Product Owner and Schum Muster are not included in this count unless they are also executing the work of the sprint backlog.

The more people you have, the more communication channels them on. We as homens can only support so much at any one time.

The equation is

Communication (hannels = n (n-1)/2

So & 5 people (n=5)

5(5-1)/n = 10 channels

for 9 people (n=9) 9(9-1)/2 = 36 channels.

For 10 people (n=10) 10(10-1)/2 = 45 Chonnels.

At this point (and most likely favor) our broins cannot keep up with this number of people at once.

See - Scrom doesn't work with large teems Either. Only a specific set. Business doesn't work that wang. It might work well withm a startup for a web application but not Enter Drice -

Enterprise is doing it wrong - There are many studies then

- Mythical Man Month - Brooks.

Adding more people to a lake project only medies it later

#### The Seven Master

The scrom Moster is responsible for evaning scrom is understood on enacted. Scrom Mosters do this by ensuring that the Scrom Team adheres to Scrom Theory, practice, and wes.

The Scrom Moster is a Servent header for the Scrom Team. The Surom Moster helps those outside the Scrom Team undustand which of their interactions with the Scrum Team are helpful and which orn't. The Scrom Moster helps even you change these interactions to maximize the value cheated by the Scrom Team.

- The Savum Moster:
   Helps the team understand Scrum - Helps then stay within the Sanon Francisch.

  without a Saron Moster, practices may slip back to what is comfortable, which is the process already known - Waterfull.
  - Standard Command & Control Management. - or worse-courbay development in the name of Agile,

The Senan Maskerdosthis by not being in Charge - but by guiding the team, A Servent header is one that lowers to coet up s to do your best They do not tell you what to do, but help you make the right decision, Who is in charge then? If the scrum master does not direct, then clevelopeer will do nothing. Its the in mater running the asylum, and the Scrom Master dos nothing. Teams are self directed much like a coach to a sporting team. Schummester Service To The Product Owner The Scrum Master Serves the Product Owner in Several Ways, includings · Finding techniques on e Efective product Burling manageres. - Such as user story mapping - Impact Mapping etc · Helping the Scrom Team understand the need for clear and conside Product Buchlog I tems. -The more clear the term is on what needs to be briff, the less time is wooled ashing stilly of earliers or coeffing stuck. - Understanding product planning in the empirical environment Don't plan everything up front. Do a bit. Euclustest plan the rest move. · Ensuring the Product Owner Knass has to arrange the product back-by to maximize value. Drows out from the product owner what he could use now, not at the end of the project. · Understanding and procheing againty; and, · Facilitating Scrum Guents as requested on needed Help the product asner become more available to the form.

Scrum Moster Service To the Development Team
The Scrum Master serves the cludopment Team in several ways, including!
Comp, including:
· Coaching the Development Jean in Self-organized and cross toket anality;
hurde the team to make good decisions without making the decision themself.
This is easier said than done as the beam will make mytahis.
This is easier soid than done as the beam will make mutahus. The truch is to let them make the mistake, have them recognize the mistake and let them correct the mistake.
Also how team members work in oness that is not their speciality, This can help the team busine more cross functioned.
Specionity, This cort telp the telling seems to the colors
· Help the team create high value product;
- Don't ky inone quality.
- Reduce wask.
- Get better at their shills.
· Removing impediments to the Development Teens progress;
- Anything that stops the team from ampleting a task.  - People - Early Identification.  - Process - Technology.
- People - Early identification.
-thocas
- Help the team remove its own impediments - - Part of Self organization.
· Facilitating Somm events as requested or needed; and,
· Coaching the Development Team in Organizational environments In which Scrum is not get fully adopted and understood.
- Try to prevent the teem from revertney beck to their dd Soperically during the dubited transition period.
<i>γ γ γ γ γ γ γ γ γ γ</i>

# The Scrum Master Service To The Organisation The Scrum Muster serves the Organisation in Several ways, incloding: · Leading and coaching the organisation in the Scrum adoption; · Planning Scrom Implementations within the organisation; · Helping employees and Stakeholders understand and enact Scrum and empirical product development; · Couxing change that increases the productivity of the Scrum Team; and, · First ways & expensions to help increase productivity. - Recserch dublerent Methods. effectiveness of the application of Scrum in the organisation - Collaborate to gether · Shore ideas · Not everyone worts to do Sonom. Don't force ob down my - Hence the Scrom Moster needs negotiation stills-- Not everyone can work under Scrum. This needs to be taken into a count. Scrom Events Prescribed events are used in Scrum to create regularity and to minimize the need for meetings not defined in scrum. Note: it says imministe meetings not defined in Scrum. Not exclude them. All events one time-booked events, such that every event hos a maximum disrotto Once the Sprint begins, its duration a fixed and cannot be thortenect on lengthen If upo decide I was sprints. Stick to A. If you decide I week. Stick to b

Some teems start to try deliberent lengths when they first start.

They may try 2 veeks, I veek or 3 weeks. But once they make a decision - stick to H. Doi't chop and change sprint to sprint when it is convenient. I don't work in 2 or 3 peak blocks. I just do the work. The sprint gives a regular time everyone know and can thus work to it will also force you to create something in the end. The pressure (not too much not too little) can help to the imoverties as you have to produce something, The remaring events may end up whenever the purpose of the event is achieved, ensuring an appropriate amount of time is spent without allowing vasted in the process. By fixing the norman time, you prevent events from taking too long. It prevents them from going forever.

Also helps tooks the event to cyclic result. Other than the sprint itself, which is a container for all other events, each event in Saram is a formal apportunity to inspect and adopt something. boh at each event as an opportunity to both boch at wheat you have done and try to improve. Doit just Leuve. It for the hetrospetine. These events are special icelly designed to enough critical transparenting and inspections. Failure to include any of these events resulted to recluded transparentary and is a lost opportunity to inspect and ordayof. Also too it you treat the event os a "tick in the box " event, you recluse its effectiveness. The Sprmt The heart of Sanon is the Sprint, a time-box of one month or less during which a pore, usable and potentially released product increment is created. Yes you should create something used of. Not documentation. Not a plan. Not an environments
It can be small. Only do one spicific thing in a narrow
field, but its usable. Sprints have consistent durations throughout the developments

of the previous sprint -There is no " few days of planning " before the next sprint. Everything is meanporated in the Sprint. Sprints contains and consist of the Sprint Planning, Daily Sirons, the development work, the Sprint Review and the Sprint Retraspective. Was, with all that stuff, when do you actually work? A Sprint does nothing outside a normal project. It just does it in smaller blocks. Rather than all planning up front. such as inchertall. Durnicy the Sprint · No changes are made that world endanger the sprint goal · Quality goods do not decrease; and This is important, when companies start scrum in 4 rally, thus push to get things done givicher. When this happons the first things to go is quality. But saying that. What is Obality "You need to seriashy what quality is and strip out I the weste. ey. Downertation. Having a 100 page spee that no-one needs or can understand to not quality. Having a consise document on diagram that everyone understands Also have colving standards, etc well downerbed and be cible to be verifical. Nothing based on individual opinions. · Scape may be clarified and re-neconated between the product owner and development team as more is worned-Scope is not fixed. It varies as you learn more Court sprint may be considered a project with no more than a one month horizon. I the project sprints are used to accomplish something. Each sprint has a definition of what is to be built, a design and a flexible plan that will goode building it, the work, and the resultant product.

Has many projects just produce doco or spees? Each Sprint is a self contained project. Tost smeller. And no -its not quite like a small cockerfull. Its so much more. Sprints are limited to one Calendar Month. When a Sprint's horizon is too long the definition of what is being built may change. Complete it may rise, and rish men increuse Sprints enciole predictability by ensuring inspection and adelption of progress to word a Sprint Goal at least every calendar month. Sprints also limit rish to one Calendar month Concelling A Sprint A spirit can be caralled before the Spirit time-box is over. Only the Product Owner has the authority to concel the Spirit, although he or one may do so order influence from the Stakeholders, the Development Teum, or the Sarum Master. A Spirit would be concelled in the Sprint (roal becomes observed.

This might occur it the company Changes direction on in the market or technology, conditions change. In general, a Spirit should be cancelled if it no longer makes sense diven the circumstances.

But due to the short disration of Spirints, concellation rarely makes sense. sense. Sprints are concelled it a radical change in hout is required. Something servoisty must be wrong it you cannot want want such such a month before you chop and change. When a sprint is cancelled any completed and "Done" froghet Bochby Hence are reviewed. He part of the work is potentially releaseds. The Product asner typically accepts it.

All mamplete froduct Bochby Hence are re-estimated and patrocches and the product backbook The work clone on them deprecates quickly and must be trequently re-estimated. Knowleder fools fost. If you are working on something, have to put it aside for a period or time then come back to it, you need to get reoppositud citts the work. That takes time. Sprint Canadations ansume resources, since everyone has to re-queup in another Sprint Planning to Start another sprint. Sprint Canadations are often traumation to the scrum Team, and are very Uncommon. They are a waste,

Sprint Planning The work to be performed in the Sprint is planned at the Sprint Planning. This plan is created by the collaborative work of the entire Scrom team. Sparet Planning to time boxed to a movemen of eight hours for a one-mosth sprint. For shorter sprints, the event to escally shorter. The Surum Moster ensures that the event takes place and that attendants unclerstand its purpose. The Schum Master teaches the Schum Team to keep it within the time-box. Eight Hours! Servicely. When do you get the work done! Eight Hours is only I day. That is 1/20 th the time. A small price to pay to know what you are doing during the Sprint. Spirit Planning answers the following: · What can be delivered in the increment resulting from the speaning Sprint? · How will the work needed to deliver the increment be achieved? Topic One: What can be done this Sprint? The development team works to forecast the turctorality that will be theretoped during the Sprint. The Product Owner thouses the objectness that the Sprint should achieve and the Product Book by items that, it completed in the Sprint, would achieve the Sprint Coal. The entire Sorum team allaborates on understanding the work of the Sprint. The objective of the sprint is some forctionality that can be used.

Sometimes small, but useful. It may be incomplete, but still useful.

The Product Owner needs to get what is in their head into the Developers heard with remards to the objective -not the solution.

But - the whole Saram team needs to work to understand. This is different to standard practise where a Spect to handed over and even one works of the Spect can be intempretable. The idea here is to remove the different intempretations, remove ambiguity to the ispal. The imput to this meeting is the Product Boxhox, the lakest product increment, projected suppoint of the Development Team during the Sprint, and past performance of the Development Team.

The number of items selected from the Brodword Buchlon for the Sprint is solely up to the Development team. Only the Development Team can assess what it am accomplish over the Upcoming Sprint. The Development team has the right to refuse work. This is hard because most people want to please. The environment must also be Safe enough for the Development team to reject work. Therefore the Sorum Moster Should buch the Feam and the Product Owner should respect the decision. Contrary to correct Management where you get what you have been given. Will never work. Manuagement pushes. After the Development Team-forecasts the Product Birchlory items it will deliver in the Sprint, the Scron term Crarks a Sprint Goal. The whole Scrom Team Crafts the Goal - Serom Mester - Product Owner. The Sprint Goal is an objective that will be mot within the Sprint through the implementation of the Product Backbay and it Provides gordance to the Development Team on Why it is building the increment. The Sprint Goal is functionality to be detrivered.

Eg-for a Blegging product

- Be able to post a blocy

- Purchase ander Systems

- Be able to raise a purchase ander - Ambiégoas - meh Co happy Topic Two: Has will the Chosen Work get done? Having set the Spirit Coal and selected the Product Brellog items for the Spirit, the Development Team decides how it will boild this fonotionality isto a "Done" product merement during the Sprint.
The Product Backley îteres selected for this Sprint plus the plan for delivering them is called the Spir-t Beehlog. The second half of Spirat Planning to determing the Plan to produce a done marement. Remember, the Boehlay items should not be a "solution". Thuy are regard franctionally.

The Development Teum oscilly starts by designing the System and the cook needed to convert the Product Boek boy into a product Inchant.
Work May be a Varying size on estmaked elfort.
Note Estmation of effort not time. Hosever, enough work is planned during the Signet Planning for the Development Team to forecast what it believes - I can do in the appoint, work planned for the first days of the Signet by the Development Team is dramposed by the end of this meeting, often to units of one day or less. Note. No mention of Stories. Storie one not part of Scrum.

When is broken down from large to small. One day or less is not just developments, but everything me . Thomy The Development Team self organizes to undertake the work in the Signary Backboy, both during Sprint Planning and as needed throughout the Sprint. Sell organines, thus no one induding the Senon Moster assigns touches to people. The Serum Muster must encourage the team to Seif Organie. Without Someone director, has will people know what to do? They will end up do ing nothing. That is why upo need motivatuel people. The Product Owner can help to clarly the Selected Product Buchley items and make trade ofts. This is Through negotration. There is a certain amount of capacity the beam can handle . Over exted and something suffers. The apal is that the only thing that suffers in scape. If the development team determines it has too much on too little cook, it may re-negotiate the schools product buchley stems with the Product Owner. 100 Little add more Too much - remove some The development Team may also muster other people to attend in order to provide technical or domain advice. But these people do not part-copola By the end of the Sprint Planning, the Development Team should be able to explain to The Product Owner and Schom Master how it intends to work as a self organized team to accomplish the Sprint Coal and Creale the anti-capital increment. This is a feedbech mechanism to let the P.O. know the Dev team understands for reenomends. It also bous the Devoteen to put a strategy together on how to work.

# Sprint Coal The Sprint Goal gives the Development Team some flexibility regarding the functionality implemented within the Sprint. The selected product booking items deliver one coherent forcion which can be the Spirit Coul. The Sprint Goal can be any other coherence that causes the Development Team to work together rother than on separate init others. The Goal could be the problem to be solved. It is basically something larger and more meaning ful than jost the work. It also needs to be something that guides the dumbpers decisions. Spront Cooks should be S.M.A.R.T. Gools. Specific Messorable Attainable Belevent Time Bourd -As the Development Team works, it Keeps the Sprint Goal in mind. In order to satisfy the Sprint Goal, it impliments the functorality and technology. If the work turns out to be different than the Development Team expected they collaborate with the Product Owner to negotiate the scope of the Spirit Backlog within the Spirit. Daily Saram The Daily Scrom is a 15-minute time boxed great for the Development team to synchronice activities and creeks a plan for the part 24 hours. This is done by inspecting the work since the last Daily Scrum and forecasting the work that could be done before the paid one. 15 minutes max negardless a team size. 17 is not a status report. The Daily Screm is held at the same time and place every day to reduce complexity. During the meeting, the Development Team members & splain: · When did I do yesterden that helped the Development Team ment the Sprand Coal? "What will I do today to help the Development Team much the Spinst

· Do I see any impediment that prevents me on the Development Team from neering the sprint Goal?

Its stoped to have everyone sterely around arowery these quotions. Just do the work There quotes do not specifically have to be arraved one atten another The idea is that the team haddle together and work out what needs to be done. have heard & teams that do the Hoddle to work out what they are some to do. Then the SM on PO or Maranger comes in and they then do the Stand Up. The Hoddle in this Fisterie would have sufficial. The Development Team uses the Daily Scram to inspect progress towards the sprint Coal and to inspect how the process is trending toward completing the work in the Sprint Backlog.

The Daily Scram optimized the probability that the Development Teem will meet the Sprint Coel Great Day the Development Teem should inderstand has it intends to John together as a self-orcognizing teem to accomplish the Sprint Goal and to meate the anticipated increment at the end of the Sprint.

The Development teem or teem members often meets immediately after the Daily Scram for Detailed Discussions, or to adopt, or replan the pest of the Sprints work. This is a formal chance for the Development teem to do something it it plan ages how wine. Rather them continue blindly following the plan. Do something about it. hook-reassess replan implement The Scrum Moster ensures that the Development Team has the meeting, but the Development Team is responsible for conducting the Daily Scrum. The Scrum Moster teaches the Development Team to keep the Daily Scrum within the 15 minute time box. A test to try to see of the Daily Standup is a status meeting rother than, a planning meeting a to tell the Sonon Moroton to Pics Off. But do this about the teem is ready. Another test is it the Daily Standing does not happen it the Senon Moster/ Morange is not present. The Senon Master Entorces the rule that only Development Team members point ic pake in the Daily Senon! Doily Scroms improve amountained eliminate other meetings, identify impediments to development for removed, highlight and promote quich decisions making, and improve the Development Teem's level of knowledge. This is a key inepert

and odept meeting. Do upo need Duily Scrums deveryone is working on their Daily Screns don't work. Evergoe's doing their own thing , there to no need Sprut Hevres collaboration. Is this realto a term? A Spring Geview is held at the end of Inspect the Increment and adept the Product Backbay During the Sprint Review, the Sonon Team Circl Stateholders Collaborate about what was done in the Sprint Based on that any changes to the Product Boundary during the Sprint, afterdies ephaborate on the next thing that gold be close to optimize come.
This is an informal meeting, not astatus meeting, and the presentation of the increment is intended to elicit feed buch and took collaboration. This is a formal session to get stake holder feedback. It does not mean that go a need to viait to this point to show Stakeholders. You can talk to a feer don't the Sprint to get teedbuck some to unclear items. This is at most a four hour meeting for one month Spirmts. For shorter sprints the event is usually shorter. The Surum Master ensures that the event takes place and that attendess understand its purpose. The Schan Moster teaches everyone moduled to keep it within the time box. Again another fine booked meeting. The Schum mouster is not the one running the Show. They are the event planner. They make sure the eventy takes place. Helps everyone, team mentes, product owner and stake holders understand the purpose of the event. They may help direct the event, but the content is all Product Owner and team. The sprint review includes the following elements: · Attendees include the Schon Tearl and key stakeholders musted by the Product Owner Key stulmholders should be thouse who. · Pay to the work done so they can see where their money so going "Those who will ise the product became they will have to live with the result out thus should have a say

You do not exent people unvekiled coming along like the whole company, you also don't walk into, only those insided by the product over.
This is also not a town hell, here the aron smell.

· Anyone else drietly mobiled with the product.

/ I U-F-

· The Product Owner Explains what Product Backley items have been "Pore" and what has not been "Pore". by not sharmy that hearing betind half done work Done is borsed on the "debinition of done" By sharing what isn't done, it stake holders get origing. this will lead to the term hiding stuff. And my stoff means that the Stallholders do not see reality and thus compot note proper decisions. - Need man · The development beam discusses what went well during the Sport, what problems it ran into, and has those problems were solverel. - More transparency This time from the Dewlyand team. Those that So the work. · The Development heem demonstrates the work that has been "done" and consues quotions about the - Show the Stakeholder the progess and also so they are see what they are given freed buch on. Ever better would be to let the Statutoldes do the dono with guidence from the Developed teem. Boil try to ovoid bugs. Show them so statuboldes are anow of them. This is where the term "8how case" comes from becomes a 8 how and tell; A Showcasa above downot help the product yet better. The Product Owner disciples the Product Backlog as it stands. He or She projects likely target and duling dans based on progress to date (if needed). This is to give transpareren to the State hoteley. So they Know what her been worked on.

Besiel on the work to date, completion to Borch log com be debermind based or current pragness. Such as Burn drawn charts. coold be missel, the Statutoldes can discuss dropping features that are no longer negured, Ultimobely though, the final decises nears inth the P.O. Target and Deliving dates should not be orbitrony for exemple sett a date to get the team to work faster. This oddle stress to the overall process. Leady to teams wohig late into the night to meet a false deadline only to find at that it made no difference. This becomes very demoralizing. The entire group collaborates on what to als next, so that the Sprint Review provides valvable in put to subsequent sprint planning. The Key here is collaboration, Everyone gets a voice Evergone has input. · herrend how the Market Place on Potential Use of the product might have changed what is the most valuable thing to do nest; and Things can change The Stateholders, PO may regent what has been done. This is always a possibility. Not only for new work, but for work alreely done -· heview of the timeline, budget, potential Capability, and market Place for the next onto a potent release. A functionality or capability of the product. This may include conning the project / work. It enough value has been reached, then work can stop. This needs to be taken into account. The result of the Sprint Review is a revised Product Buchlay that debins the probable Product Buchloy items for the next Sprint. The Product Buchlay may also be adjusted overall to meet new opportunities.

This is a dehwerth to the Sprint Neview. It is up to the Po. proority. This is just one opposed of the P.B. These items many need further grooming by the P.O. and the Scrum Team. Everything is up for re-ordering, removal or addition. Nothing is potentially. The Plan changes get again Sprint Ketrospertive The Sprint Retrospective is an opportionity for the Sunn Team to mapet itself and creek a plan for important to be enacted during the next Sprint. This is part of the final portion of the Plan > Do > Chech/Study > Act cycle. It is a formed time when the kear reviews how they have world. The output should be a plan (or experiment) on a way to improve the current situation. It doon't have to be a big change, but there should be a change. The requirement for change is to prevent stagnistion The Sprint Retrospective occurs after the Sprint Review and prior to the next Sprint Planning. This is at most a three-hour meeting to one-month Sprintle For Shorter Signats, the event to osciety shorter. Again time boxed to a neximum time. Tiso week sprints, usually 1.1/2 hours is allocated. The Syrum Moster ensures the event takes place and that attendants understant its purpose This is an interesting statement. It means that the Reprospertice in for the Team, by the term. It is not the Serum markers note to "Run" the Reto specture. They merely facilitate the retro. The Saron Moder ensures that the meeting is positive and productive. Ketros ore just a waste do time If the feeling by the Teem as a whole is that a Betro is a

week a time - do something about it. Discuss why to is a wask of time and look at ways to improve them. One common mistake is to skip the Retrowhen it is a "versle" of time. This only hides the problem, it does not address the problem. Sevents perpose is to expose problems, in this case a meeting on improvements that doesn't do onything. It is up to the team to make the meeting useful. Seven con't fix possivity. actualy The Screen Moster teachs all to Keep it within the time-box. The Screen Moster participates as a peer team member in the meeting from the accountability over the Screen Process. Interesting note. There is no mention to the 3 guestions in a - What went well during the Sipront. - What dishit go well during the Sprint. - What needs improving, While these quotions are conswered - they are not directly colved. The consises must be encarraged from the team. What of people have nothing to say? They shouldn't be made to talk. That is all well and good, but I cannot tell the difference between not having some thing to say and not saying anything because - You am affraid to - Introducted not to sen somethy (not a safe environment) - Think no one come about your trees - You're pissed of. The only way to be sure is encouragement do participation to bring issues at in the open and make sine it is safe to do so.

The Perpose of the Sprint Retrospective is to: · Inspect has the lost Sprint went with regards to people, relationships, process and tools. This isn't a time to go through the work output itself, but how the work was done. - Has the team world together, it well · Any experiments or how to work. It raking work visible. I mity wro. Waling from have. etc. Hensei - behindledge ones mistales and pledge · I dentity and order the major items that went well and potential improvenests - What did we do well we don't want to torget - what did well do well that we can exploit to improve other oppeals of the process. · Creak a plan for implementing improvements to the Way the Scrum Team does its work This I think is the most missed out thing with Rebrospectus Planning the improvement. It you do not plan to improve, the Retrospetive become useless. Its all well and apoel pointing out onces that need improvement, but not doing the improvent avorantees talche. It you do plan, plan-it as an experiment. Here a hypothesis, determine the expected result and cetrally see it the result is reached. Determine a time line to review, It could be the next day, week sprint, month, But you need

there revolus,

The Scorm Moster encourages the Scrum Teem to improve, within the Scorm Process francisch; its development process and practices to malicial more effective and enjoyable for the pest sprint.

This gives you permission to make things bether. Challenge the Status Quo and have fin doing it.

This gives permission for those in "death" scrum to challenge their situation. I how I don't find "death marches" fun. Maybe you do? But I don't.

Charge things up to make them enjoyable. It its not, upo one dama Sarum wrong.

Durmey The Sprint Rebio Specter, the Scrun Team plans

ways to we hear product quality by importancy with processes or adapting the delinition of Done, is appropriate and sot in conflict with Product or organization standards.

This is self inspiritor A the work process, the Sprint Mexico over the improvement of the work extrust.

By the end of the Spornt Retrospeture, the Sonn Team should have idealified improvements that they will implement in the next spornt. (Implementing their improvements in the next spornt to the adoptation to the inspection of the Sonn Team itself

Self Improvements.

Although improvements may be implemented at any time, the Sprint Retrospective provide a formal apportunity to faces on the inspection and adaptetion.

I don't like the statement "Improvements may be implemented at any time".

This can insmake that fly be put of due to "other" work and thus never be implemented. I think an additional statement these improvements should be "tested" as soon as possible. I realize that improvements more need to be put of, but adding

"as soon as possible "means they should not sit on the back log forever.

Also, by speedyin "tested" actually the fact that an improvement may not achelly make an improvement. Thus testing, even a small test will help verily this before implementing a longe uniscilably improvement. Product Bachlou The Product Backley is an ordered list of everything that is known to be needed in the Product. It is the single sance. A requirements for any changes to be made to the product. The Product asner is region silve for the Product Boulday, including its contest, availability, and ordering. The Product Buchley is just a list of items. That list doesn't have to be in Jira. It can be in exact, cords, a word document, hand in the on paper. It isn't specified. The practices of how the Backloy is kept is independent of Scrum. It is the single saver of requirements. That means that it someone wants to do something It must go on the buchloy, and since the Product Owner is in change of the Buthoy, It must go on with their blessing.

That meems that even is the cost wants country done,

they don't go to advalopen don'thy, they go to the

Product one This meems that the po wa position of respect. Not someone who a managers lacky. The list also needs to be ordered so that when the list is looked at during planning, or it the dev team finishes the sprint Bachley early it is casily known what is the most valueble with first. What it everything is at equal value. The had that before. Then nothing is valuelede. This is an antipattern. the Po worts everything, so everything is of equal value This is then used to not dudopers. Which I cook to shootly work on the durlops try to complete every thing in the Sprint! There is always somethin do high Importaine, This needs to go first. Then the next and so forth.

A Product Backley is never complete. The earliest development of it large out the initial Known and best-understood requirements. The Product Buch by evolves as the Product and the environment in which it will be used evolves. The Product Buchby is dynamic; it constantly changes to identify what the product needs to be appropriate; competetive, and useful, If a Product exists, its product Buchbey also' exists. When you first start, you do not need to work out everything initially. It will all change anyway so new things are Courned Too connot know everything up front. What you know initially, start working an work out the rest later. The later you can delay denzions, the more time you give it to change. So that when it gots time to do the work, hopefully -not always - the change will be minimal. The cone of concentrating. Bor tome As you get door to finishmy, you start to get an idea of what the endull look like. At the beginning, you do not know what problems you with face, therefore only work to small spale.

Too reclude the unknown to a Short interved.

Deliver to that interval and at least that Small section is known. Yes it can change, but you are delivering value sooner.

This is who the Product Boulday should be du remie

Even though the Project is complete. Charges, bugs, new feedures, with nighest work still exists. Then are stoucht in the Product backhoy so they can be worked on and a later clark, when there is more time of budget.

The Product Benkloy lists all freetines, functions, requirements, enhancements, and folices that constitute the changs to be mercle to the Product in future releases. Product Backlog items have the attributes of a description, order, estimate, and value, Product Backlog items of ten include test descriptions that will prove its completeness when "Done".

The Product Budalog contains eventhing needed for the Product.
This includes DB, Servers and Other non-functional as well a functional regiments.
Guch then should have as
- Description: These tend to be in the form of stories.

Aga --Lucent -So That Tay!

but they do not have to be. They can be a header, or a paragraph. A video, drawing. The important thing is that they fram context to how the item fits in, and convey enough into to know what the work is.

- Order Generally what is needed and most valuable at the bottom.

  Make it ears for the team to know what to work or enthant as king. Also think, it you were to run ast of money in the next sprint- what would you want most.

  Tost don't like mentioned above on he enough.
- Estimate So you have a guide of to has long or has much elbort the item will kake.

  Note: Scrum does not spic. If the metihal of estmentian, Tou can use strong points to chint sizes, animal sizes or done I son if time.

  There are newsons why you chall d not use fine. I want go through them here.
- Value This could be in the form of ROT. Time sowed etc.
  This helps give contest as to why the work is done.
  Some companies include ROT, even in mon-scham projects.
  The problem is that at the end, the ROT is never ventiled.
  You never know it the value is realized or not.
  This is not cool

- Test Descriptions - Three help the Develop know that they Acien there are many tamed; but the more detail meladed the better an understanding the Develope hers.

Bols like acoumbe, titnesse, Concordion com help automak the venticationing As the Product is used and geins value, and the market place provides heedbert, the Product Backley becomes a larger and more exhaustive list, he environments never stop changing, as a Product Backley is a living antifact. Change in business represents, showled conditions on technology may cause changes in the Product Berkley. The only want to know it the product will be used it is when it is used. heat hands on. Not labs, not trials, but near people using the product in crope.

You will then know its short falls. The fixes, changes extra functionality then gets added to the buchlog. A Product is a lover lived their unlike a Project Requencits evolve, there is no end until the product dies for whatever nevson. Multiple Scham Teurs of ten work together on the same product.
One Product Buchlow is used to describe the upraining work on the Product. A Product Buchloy attribute that groups items many be employed. One Product Boehloy. One Sance of value, Everyone works to get the most value sooner. Product Buckley refinement is the cut of adding detail, estmetis and order to Items in the Product Buckley This is an original process in which the troduct and and the Development Peers Collaborate on the Details of the Product Buckley refinement, Items are inversed and revised. The Schum Team devides has and when refinement is done. Autinemost vacidly consumes no more than 10% of the Capitality of the Development Team.
However, Product Buckley items can be opposited at any time by the Product anser or cut the Product ansers discinction. Product Bochlog retinement is where you go through iters in more detal. Break closes the stend to smaller stress to work. Get Acceptance cristices colded grown out in detail what needs to be done for each iter. Not too much but just enough. How much is enough? You have to work that out

by trial and error, Three are no easy ruls. Refinement Should not tak more than 10% to a two or one har each day our the sprint. Do not take more than 10% of the time, but you can take lus. More meetings, when do you gut the work done ? Redinement is clone onymens its just more heatic. and ad how when upo chan't specify a fine? This is a requirements gothern process. Rether than speed a whole heap of time up front, you are doing this during the development. for Developers, this many seem to be on issue. BA's do the responents on thereing. Put them together and hard them over to the Developer for coding over to the Developes for coding Oevelope, the tester. hook of it as an opportunity to learn, There are no BA roles. You are the BA, the Develope, the tester. rooms Migher order fraction Buch by Itans are usually cheener and more detailed than base ordered ones. more precise estimates are made sound on the greater clarity and increased detail; the lower the order, the less detail.
Include Backbay items that will occupy the Development Teem
by the appoint Spirint one red ined so that any one item con
be reasonably "Done within the Sprint time-box.
Product Backbay items can be "Done" by the Development Team
within the Sprint are deemed "Ready" for selection in a Sprint
Pranciper. Product Backbay Items assured acquire this dequer
of Transparency through the above deserribed red in a divitus. The closer you are going to work or an item it needs to have more debil. This makes sence. Why would you could more debil to an item you work look at the gone time, while neglicating speaming work? het the items to a point you can Start and finish the work in a Sport. Don't do half the work now and the other healt prest. Sport. There the work as it this Sport is your last. Any so sequent Sports [even planned] is a bonus. At less during the planning, There is a definition of "Done" which we will got to lake, but

Should there be a Redirection of "Ready"? The Development Team is nesponsible for all estimates. The Prodet Owner may influence the Development team by helping inclustered and select trade the but the people who will perform the work make the final estimate. Have you over been in the situation where a menery gives you a piece of youth, expects it to be close in a few days, you look at it and its o few months? This statement is to given Deus the ability to sen of will take a few months. Not a ten deus. They should know, they are doing the work. Montaring Progress Towards Coals At any point in time, the total work renaining to reach a goal can be stimmed. The Product Owner tracks this total woll remaining at least every Sprint Review. The Prochect Owner compares this amount with the work remaining at previous Sprint Reviews to assess progress toward completing the proneitical work by the desired time for the goal. This internation is made transport to all state holders. This is giving the description of the Bundam chart, without explicitly sering Dondam chart because it limits thinking of other using to describe the data. (estimates) This is bosically the sum of all work revious compared to the previous sum. The difference gives the rock. Bossel on the rock, the expected completion of the work can be estimated. Various projective practices upon trending have been used to forecost progress, like burnday, burn-ups, or cumulative flows. These have prough useful, However, these do not replace the importance of empiricism. In complex enomoments what will happen is unknown, Only what has already happened may be used for forward-looking decision-making. Various examples are given to represent the date. What this data shows is a rate over time. Think of this rake as sharing your speed on the odometer over time. Your speed an againer changes.
If you are on a freeway your speed is lookph. On a subserbay road it can drop to 50 kph. School zone, 40 kph. This is the known limits and estimates can be cherised. but what hoppens it there is an occident on the

road, road works, trailitie, a special event? for robe changes, your estmated time of annived (delivery) changes. Then need to be take into account -but about they occur. A good GPS system will to this for a journey. You here to do the same thing for your journey in doing the work. Sprint Buchlow The Sprint Bachloy is the set of Product Bachloy items selected ton the Sprint plus a plan for delivering the product increment drol realizing the Sprint Goel, The Sprint Bellog is a forecest by the Development Team about what functions at by will be in the next increment and the work reeded to deliver that functorality into a "Pore" increment A Spring boehbeg is: - Selected I fiems - A Plan for delivery of the minement and the Cool may have been in old It is a fore cost not a contract. ,/ Serin avides have heard Sover Mosters mention Commitment to the work This language is danguous. It means hell on high water this compant of work will be done. This is taken as This can lead to late nights, long hours, wating weekends to compute on it ancieved Sport Builday. This is not what we want. A Sport is a time how mot a decellar and we are trying to measure the 'rake of work at a necessarish pour. Not "Get all this stuff done before the Sprint Deadline". we can get booked for Speeding on the road. Surm Mashes should be booked to "Speeding" their teams (drawing them too hard) otherwise just like an engine, they will know and. The Spirit Bachley makes visible all the cook that the Development Team identifies as necessary to meet the Sprint Goal. To ensure continuous improvements, it includes one high priority process improvement identified in the previous Retrospective meeting. This last statement of metuding at least one improved is kend to getting better. Unfortunately many teams do not do this or do not see it as a prompted off.

High Performance teams almostly do this as mentaced by Ken and Jeff when this version of the Jenn guide was relieved. The Sprint Backboy is a plan with enough desail that Charges in presents can be understood in the Daily Serve.
The Development Team modifies the Spoint Backbay
throughout the Spoint, and the Spoint Backbay emerges
down the Spoint. This emergence occurs as the
Development Team works through the plan and learns more about the work needed to achieve the Spirit hoal. Unlite water fell, with Sorum you do not work out enging up front. You are not supposed to. How many this have again world as somethy only to find a detail that you forgot, didn't know about, had a problem you could not solve and head to have ask a perhanguard. higher out a morhamound Sorum takes these things as last. Shit hoppens So don't plan too for ahead beeause it is all oping to change anyway Took plan enough to get by for now and aliffly ahead in the futre. We will learn as were go As new work is recomed, the Development Teem and it to the Spirint Backley. As work is performed or completely, the cotron and review ing work is updated when elements of the plan are deemed unnecessary, they are removed. Only the Development Teem can change the Spirint Backley downing the Spirint. The Spirint Backley is highly visible, real-time picture of the work that the Development Teem plans to accomplish overing the Sprint, and it belongs solely to the Development Team As the Development terms grands, things missed egil colded 6 the Spiral Bulley of it can be absorbed who the Spiral, , shout overwork. he working borger have. If it can't be absorbed into the Spirit, then it either goes into the Product Bachlay, or something thops old in the Spins Buddley both 100 the Product Beekloy One This about agite as that we try to minime the woh done. It something so no logs needed - drop it. don't do it amount . Make sure night? Its and my how much work is done that is not required. The Spirit Bodolog should be visible to all. This is why you can see Scrum Boards, It's a visible way to see fin

By making it visible - everyone can see the progress. Nothing 6 hidden Montonicy Syprimit Progress At any point in time in a Sprint, the total work remaining in the Sprint Buchby can be summed. The Development Turns troubs this total work remaining at least for every Daily Scrum to project the likely hood of achieving the Sprint Creal. By troubing the remaining work throughout the Sprint, the Development Team can remerge its progness. Much like the Product Beeklog, remaining work can be tracked checked and determination of compositing done. This should be done at least daily, doing the daily Senm. This statement case on disproves the "What I did gestedy what I will do today, any plaches" statements. Threse can help determine progness but they are not the only thing done during the Doity Serum. Again this emphasizes that this is a responsibility of the Development team. The Development Fear is marks of their domain. Increment The Increment is the sum of all the Product Bulbay items completed done the Sprint and the scale of the increments of all previous Sprints. At the end of a Sprint, the new increment must be "Done" which means it must be in Usable and the and meet the Scrum Team's definition of Done! An Increment is a booky of majortable, done uson their supports empiricusm out the end to the Signot. The increment to a step toward a vision or good. The increment must be in usable condition regardless of whether the Product amer decides to refees it. Boseely on inchemt is all the cook done to dere that have been he lig completed and in a state that the Product Owner will find over 1. to some degree. By Octimition to done which is discussed later. It must be code reviewed new error hereby, tollow standards, be tolded and be to a point receipt for relieved. By doing this up front - even for work that is not in a firsty complete state - is still has many months ledt to bring it to tall spec, you have eman hardly

- Get beedbook some. It left fill fully needs after months, without oheeling, you ron the risk do not waring what the client needs a counts.
- is badget ins out the client still has somethy mentale. From the first 2 weeks.
- It forces you to think in smaller chunks of value rather than jost goms for the whole thing.

The Product Owner is the best pross to know when to relieve so they know when the product will give the most value to wars and State holders.

By having the increments in a "Done" stake, there is no relieve as fixing "Bugs" or any other trep, do time before relieve as they should have been looked out before hand.

## Artifact Transparency

Sinon relies on transparency. Decisions to optimize value arel control rish one words benefied the percent of take of the artifacts. To the extent that transparency is complete, these decisions have a sound busis. To the extent that the artifacts are incompletely transportent, these decisions are flawed, value may diminish and rish may increase.

Have you ever worked or a prospect where you know that the whole thing will be a mess, you tell the Project Manager that it will ket has then endeng before it completely fails, but they release it can may because the PM told meneged engithing was good?

Ever been or a project where everything was green up till a week below release?

These problems occur prease information is hidden. It usually ends baddy and it occurs so frequently that it is considered normal.

Sorum nelies on everyone knowing everything, and by everything, I mean the cornect with No lying on bending the truth. That way good desistais can be nearly.

But for this to happer, there must be an environment when I it can happer without repen cossions.

Ex. There must be TRUST

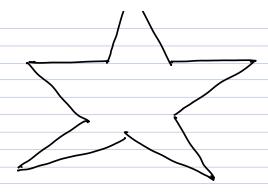


The Scrom Moss tor must work in the Product aner, Development Team, and other another parties to understand to the artificits one completed transparent. There are provided to coping with incomplete transparency; the Suran Moster must help everyone apply the most cupperoprimite previous in the absence to complete transparency. A Suran meester can debet incomplete transparency by inspecting the artifacts, sensing pettorns, liketern closely to what is been Soid, and debecting difference between the expected and read mostly. It is the Suran Mosters job to try to teach the Product Owner and the Development Team to be transported. Some technologies on - Kanban board -To visual in work - Gather Mednes - length of time of a fichely item notworked on or - Retraspetine Technique Sometimes by just listering to the from the Scommonthe com get a serese from someting is wrong. for example, membles about work, moneyunt Hiding stubb forom the product Owner. The Scrom Moster much help the team empose these so they can be addressed. The Scram Mosters job is to work with the Scram Teem orel the organization to increase the transportency of artifacts. The work usually involves learning, convincing, and change. Thorsporting downt occur overnight, but is a path. The job de a Sonom Mester is not an easy one, It done There is so much resistance to true agil. It is much easier to follow the "Process" and be ignorant of the reesons as agile shows problems. It is for easier to hide and ignore those problems. The rocal to transparency to long and arduous. It is a downey with out end, which to fine as the purvey is whent is important - not the distinction.

Definition of Done
When a Product Buehlog then or an increment is described
as "Pore" everyone must orderstard what "One" meens.
must have a Shored views ferrely of what it mens for was
Although this may vary 81 agnificantly per Server Team, members much have a Shored vielestrendy of what it mems for work to be complete, to ensure transparency. This is the dufinitions of "Don" for the Scrim Team and to used to assess when
work is complete on the Product Inchemed.
Hence you ever thought something was done only to find out that there was a responsent, or a partial of the work that needed to be done to amplete the present
complete the prem?
Here you built something only to find at that it wount what the costoner overall user had in mind and have to small oth our organ?
This is what the " ded mition of done is for. To make sure every one is on the some page, here a showed understanding what needs to be done to compile
Because everyone has their our understanding of a "regimement", the astoners understanding needs to be "extracted" from the astones broin and "implanted" mits the development team. My fourish method of doing this is through examples.
10 0
Steeling from hoiks Adzic's book "Spenticutor By Georgie"
Lets Gay that the austone has asked for a 10 point Start. A simple requirement.
So You produce the following
1

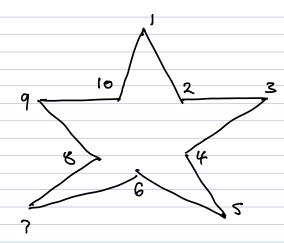
Is this correct? well, that coup to the customer. In this case the customer scape "No". Co buch and try again.

Raching your brain, you have no idea what the costoner is cohang But. So you can them to shet in 11 out.



Hun! Thats a 5 point stor!

No, says the asstoner. It is 10 points!



Ah! you now say. I know what you are thinking

A simple example of what is expected can enlighter all on what is required.

This will then reduce re-work and mis Falus based on mis understandings.

Other things can include having a list of what needs to be done.

- Tested with Astonoted tests. follows ading standards
- Documentation complète. Meets acceptant criterie
- Code reviewed
- No Kran defects Ver Acceptance tested

even migrofeed to production The same definition avido the Developmento Team in knowing has morning Product Book box items it can select during a Sport Planning. The purpose of each Sprint is to deliver increments of potentially refersable functionality that ordinare to the Scrum Feen's current definition of pone This neces that you select items from the backley that produce some functionality that is useful. Not half do a prime do work one sprint mot the other half for next sprint. "There is no spoon next sprint" The next spirat should be considered a bonus that is not grownded. Therefore school items accordingly. Reduce Scope to need be Development Teems delieu on Incremt & product firstand of eur Spring. This Incremot is usuable, so a product and may choose to immediately release H. If the debirition of now for an increment is Part of the onventions, Etandards or gridelins of the development organizate, all Sense Teams must follow it If the Product Owner choses to "Pelease" the functioning product, this means their value is returned 'sooner' that it the project was complete. It also meurs that any learning from the production from be done sooner, thus determine to the work was Juliente or not. If it is not, stop working on that feature and try smelly else. It it dos- continue working on the Kenture. If the Product is "good enough" then the Product Owner men Obsose to not continue with the most of the project. This is known as "chopping the fail" There is no use on all regional functionality is al needly delivered There is no use ontime This is another newson-than a constances perspective is got through in use by the vers orsenp. Also, it the company has evisting Standards, manparente them in the Definition of Done, but review then regularly.

You many fired some no langur relevant or appropriate of A good place to look at this is in a Retrospetuel, but that should

not be the only place. You can do it dwring the willy serven, planning sensions etc. Inspect and odapt. If "Done" for an increment is not a convention of the development Organization, the Development Team of the Sonom Team most define a definition of "Done" appropriate for the product. If there are moltiple sonom Teams working on the system or product release, the Development Teams on all Sonom Teams most mutually define a definition of "Done" If there are no company wide or team vide conventors for Done, make your as Call out what you want to happen to make seel you make a quality product. Make some that all Schon terms that walk on the same product other the some analyty values and definition of in non working order or of debias quality. Its just common sense, Get the Teems to decide their DoD. Don't dictate it to them lunless it is company convertines). If they define their own DoD, they have buy in . They may get more engaged. They may come more about meeting the Do D Each increment is additive to all prior movements and thoroughly tested, ensuring that all maninents work together. Each sprints out put builds on previous Sprints. This means that you need to make sun that past components durloped Still work. This means regression testing. Agile want work easing with mornal procedures. There oust unt enough time There be you need to automate. - Surprised Rugnesson total - Avitanched Deplayet Keedwa the time it takes to do stold But don't do it up front. Do it along the journey That way you only authorize what you need to. Keep doing the improventy. That is the whole point.

As Scrom Teams mature, it is expected that their definition of "Done" will expand to include more struggest criteria. For higher quality. New definitions, as used, may uncover work to be done in previously "Done" increments. Any one product or system should have a definition of "Done" that is standard for any work done on it.

The goal of Scrum is commiss improvement -not to keep the scine peux, the sense steedy non. As you got better one stretch your abilities, upon definition & love should also evalue.

This may include:

- Seconity goods

- Revisited by Legel Peretrotion feeting
- Performence testine

- Personance teating. Integration Delivery

over any other criteria that you may wish to include.

You coult odd this soil of thing until you god better, faster and more agile. Yeo, I mean agile in the dictionary meaning -not as in the thouses or methodology.

## End Note

Scrum is free and offered in this Guide. Sonon's roles, events, anti-backs, and rules are immotoble and although implementary only parts of Sanon is possible, the result is not Sanon. Sanon wisets only in its entirety and functions well as a antainer for other techniques, methodologies, and prochaes.

Ok, for those that complain that you need certifications to do Sanom. To be a Sonom Master here is the proof that you do not need any of those things. Sorum is free!

I remember about 20 years ago, you would to pay to use the Rational Process to develop software. This is not the case with Scrum.

Also those places that do "Sorum" but do not do Retrospections or Duity Surums/Stand Ups - you are NOT doing Scrum.

Scrying that, you can still not be doing Sommit you follow the Process to the letter but ignore the orderlying reasons for the process. Which busically is to get better. You get better by finding and fixing problems. Not by blindly following the process. The process is there to god improvement actively own a Sprint, Not organizating as required whenever or every now and those throads. then through workshops. U

Remember the beginning. Screnics a framework on which to build improvement. Technique such 00 Scham Bourds, Ven Stories, Schum Poher, Stry points one not pourt of Scham but still can be used. This is known as Scham-are as opposed to Scham-but when ported schamac