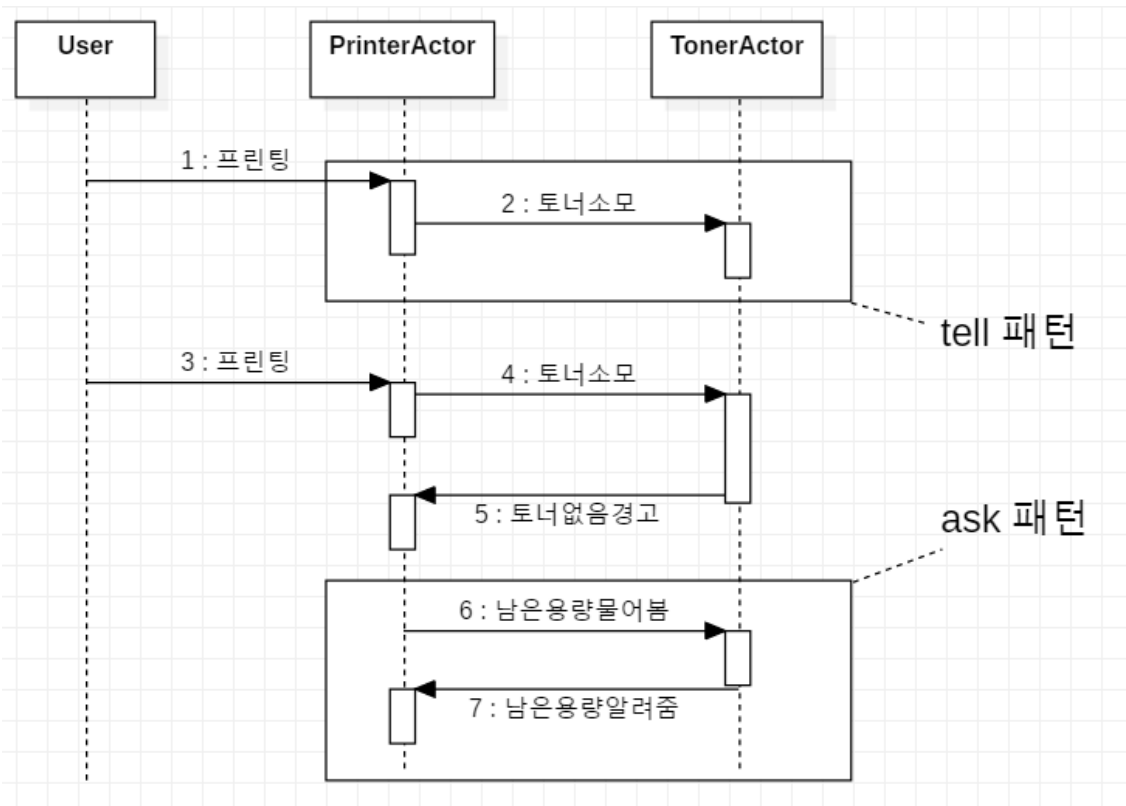


ActorSelection

- (actor ref vs actor selection)
- (tell or ask)

- () - tell
- . - tell
- . - ask



• . ()

(ActorSelection), ? (A ASK B) - 25. (B Tell A) . (ASK)

• . (~)

OOP , .

• .

• .

OOP .

```

public class TonerActor : ReceiveActor
{
    private readonly ILoggerAdapter logger = Context.GetLogger();
    private readonly string id;
    private int tonerAmount = 5;

    public TonerActor()
    {
        id = Guid.NewGuid().ToString();
        logger.Info($" :{id}");
        ReceiveAsync<int>(async usageAmount =>
        {
            logger.Info($" :{usageAmount}");

            if (tonerAmount < 1)
            {
                //
                Sender.Tell(" .");
            }
            tonerAmount -= usageAmount;
        });

        ReceiveAsync<string>(async msg =>
        {
            if (msg == "?")
            {
                Sender.Tell($" {tonerAmount} .");
            }
        });
    }
}

//
AkkaLoad.RegisterActor(
    "toner",
    actorSystem.ActorOf(Props.Create<TonerActor>()
        .WithRouter(new RoundRobinPool(1)),
        "toner"
    ));

```

int,string type .

Type .

- int (TonerConsumption) Tell .
- Sender : . () , Sender .
- Forward : Forward .

```

ReceiveAsync<PrintPage>(async page =>
{
    logger.Debug($" :{page}");
    await Task.Delay(page.DelayForPrint);

    // : . ( DI .)
    ActorSelection tonerActor = Context.System.ActorSelection("user/toner");
    //
    tonerActor.Tell(1);

    //
    var msg =await tonerActor.Ask("?");
    logger.Debug($"ASK:{msg}");

    logger.Debug($" :{page}");
});

```

, .
, .

ActorSelection Tell Or Ask .

- ? : () ?(ASK) -
- : () (Tell) -,

```

[2019-11-09 16:17:01.4420] [Info] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.TonerActor] [10] : 토너 소모 :1
[2019-11-09 16:17:01.4656] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [10] : ASK결과:남은 용
량은 2 입니다.
[2019-11-09 16:17:01.5095] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [10] : 페이지 출력 완료
:SeqNo:0 Content:string
[2019-11-09 16:17:02.3282] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [5] : 프린터 요청 들어
옴:SeqNo:0 Content:string
[2019-11-09 16:17:02.3392] [Info] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.TonerActor] [5] : 토너 소모 :1
[2019-11-09 16:17:02.3392] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [5] : ASK결과:남은 용량
은 1 입니다.
[2019-11-09 16:17:02.3392] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [5] : 페이지 출력 완료
:SeqNo:0 Content:string
[2019-11-09 16:17:03.0766] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [6] : 프린터 요청 들어
옴:SeqNo:0 Content:string
[2019-11-09 16:17:03.0766] [Info] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.TonerActor] [6] : 토너 소모 :1
[2019-11-09 16:17:03.0929] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [6] : ASK결과:남은 용량
은 0 입니다.
[2019-11-09 16:17:03.0929] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [6] : 페이지 출력 완료
:SeqNo:0 Content:string
[2019-11-09 16:17:03.8042] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [5] : 프린터 요청 들어
옴:SeqNo:0 Content:string
[2019-11-09 16:17:03.8132] [Info] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.TonerActor] [5] : 토너 소모 :1
[2019-11-09 16:17:03.8132] [Warn] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.TonerActor] [5] : 토너 소진,토너를 충
전하라
[2019-11-09 16:17:03.8256] [Debug] [PSMON-GRAM] [AKKA] [ACTOR] [AkkaNetCore.Actors.PrinterActor] [5] : ASK결과:남은 용량

```